

U.S. Department of Transportation

## IAEA CERTIFICATE OF COMPETENT AUTHORITY SPECIAL FORM RADIOACTIVE MATERIALS

Pipeline and Hazardous Materials Safety Administration CERTIFICATE USA/0135/S-96, REVISION 12

This certifies that the sources described have 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. <u>Source Identification</u> Schlumberger Model Nos. NSR-L, NSR-M, and NSR-T.
- 2. Source Description Cylindrical double encapsulations made of Type 304 stainless steel (inner encapsulations) and either 18% Ni maraging steel or MP35N alloy (MS) (outer encapsulations). Approximate outer dimensions of the Model NSR-L are 25 mm (0.98 in.) in diameter and 123 mm (4.84 in.) in length. Approximate outer dimensions of the Models NSR-M and NSR-T are 19 mm (0.75 in.) in diameter and 123 mm (4.84 in.) in length. Construction shall be in accordance with attached Schlumberger Well Services (SWS) Drawing Nos. H-239681, Rev. A or H357070, Rev. AA (Model NSR-L); or SWS Drawing Nos. H-245258, Rev. B or H357072, Rev. AA (Models NSR-M and All models manufactured after Dec. 31, 1999 shall be manufactured in accordance with SWS Drawing Nos. H357070, Rev. AA or H357072, Rev. AA.
- 3. Radioactive Contents No more than 0.74 TBq (20.0 Ci) of Americium-241 for the Models NSR-L and NSR-M. No more than 277.5 GBq (7.5 Ci) of Americium-241 for the Model NSR-T. The Am-241 is an oxide mixed with a beryllium powder in pellet form.

<sup>&</sup>lt;sup>1</sup> "Regulations for the Safe Transport of Radioactive Material, 2012 Edition, No. SSR-6" published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

<sup>&</sup>lt;sup>2</sup> Title 49, Code of Federal Regulations, Parts 100-199, United States of America.

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- 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 April 30, 2026. Previous editions which have not reached their expiration date may continue to be used.

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 April 14, 2021 petition by Schlumberger, Sugar Land, TX, and in consideration of other information on file in this Office.

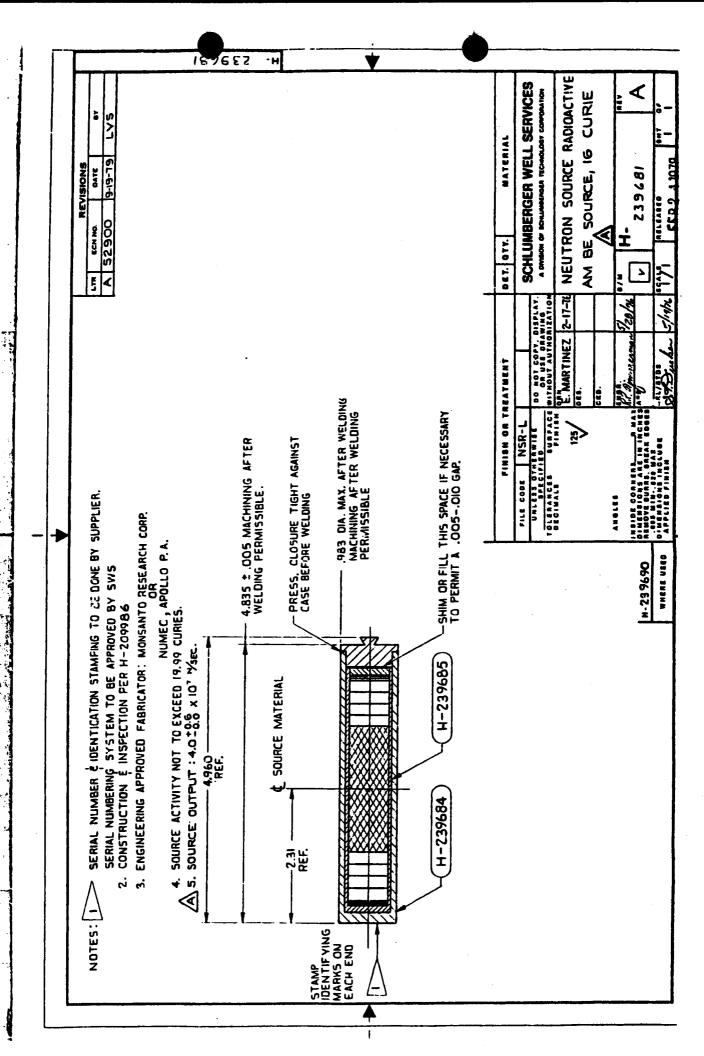
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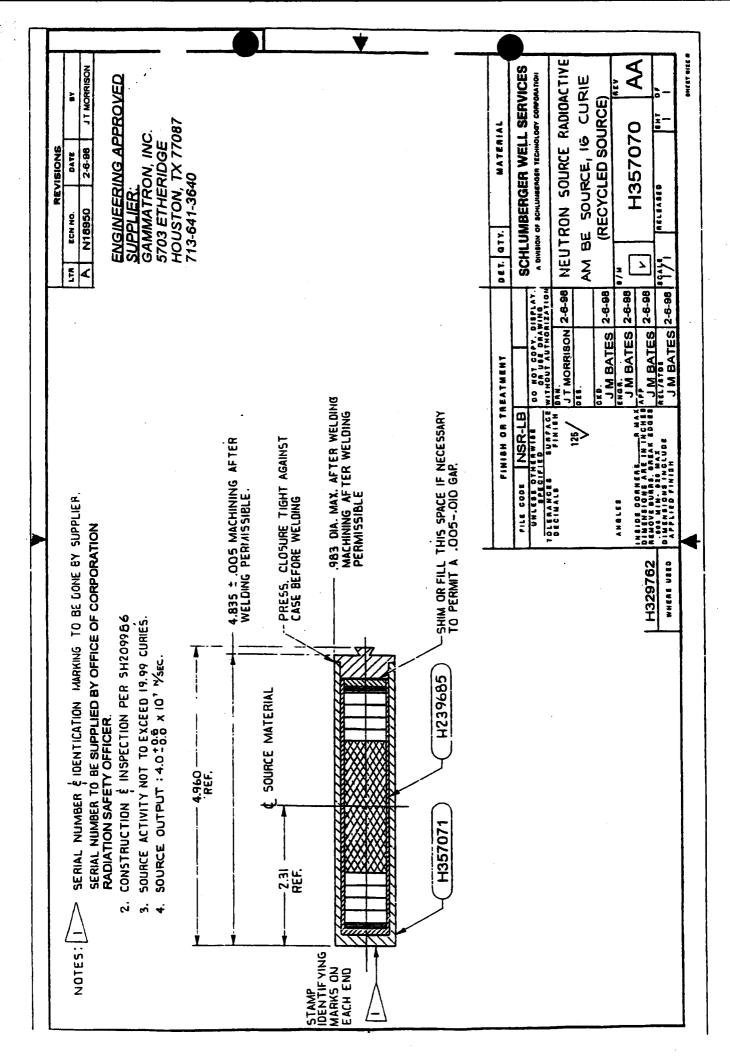
William Schoonover
Associate Administrator for Hazard

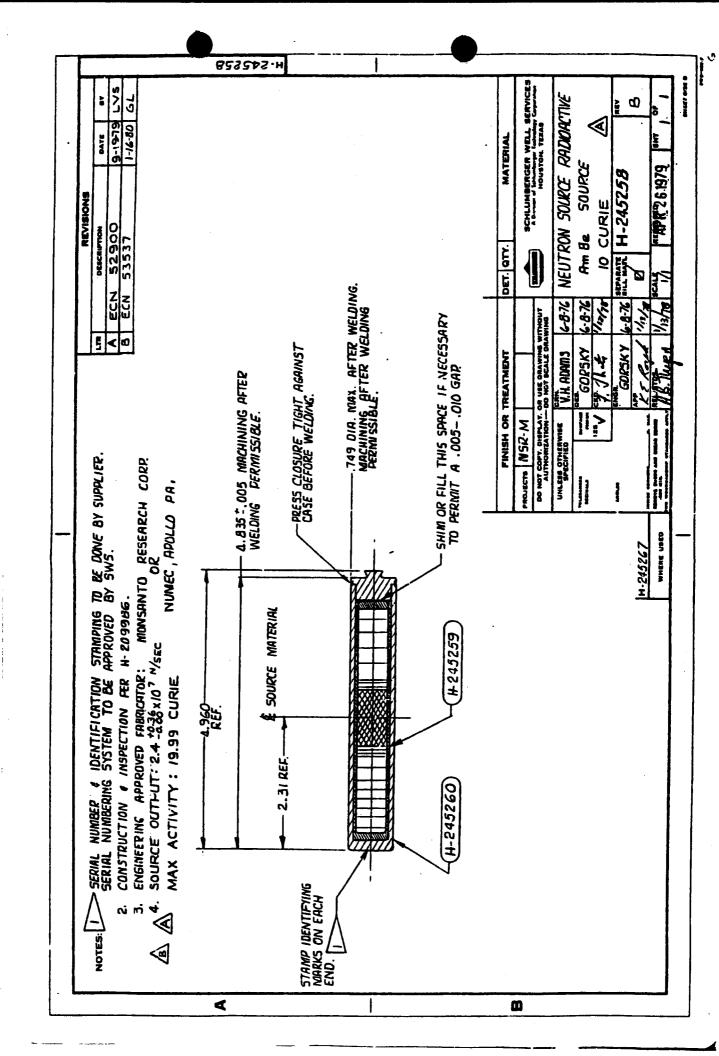
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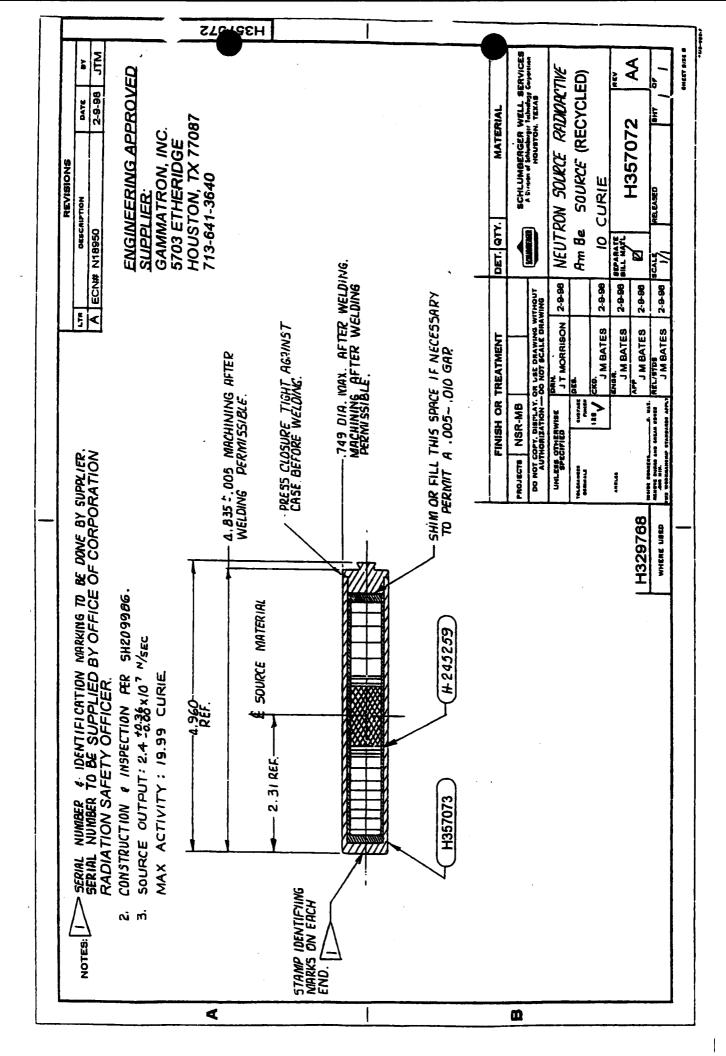
William Schoonover
Associate Administrator for Hazardous
Materials Safety

Revision 12 - Issued to extend the expiration date.













Pipeline and Hazardous Materials Safety Administration

CERTIFICATE NUMBER: USA/0135/S-96

## ORIGINAL REGISTRANT(S):

Schlumberger 300 Schlumberger Drive MD-121 Sugar Land, TX, 77478 USA