

U.S. Department of Transportation

IAEA CERTIFICATE OF COMPETENT AUTHORITY SPECIAL FORM RADIOACTIVE MATERIALS

Pipeline and Hazardous Materials Safety Administration CERTIFICATE USA/0161/S-96, REVISION 8

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> New England Nuclear Models NER-550 and NER-560-A.
- 2. Source Description The sources described by this certificate are TIG welded doubly encapsulated sources constructed of Type 316L stainless steel. The Model NER-550 has a diameter of 7.0 mm (0.275 in.) to 25.4 mm (1.0 in.), and length 9.53 mm (0.375 in.) to 38.1 mm (1.5 in.). The Model NER-560-A has a diameter of 12.7 mm (0.5 in.), and length 17.15 mm (0.675 in.), with an additional 9.5 mm (0.375 in.) long threaded stud on the welded endcap. Minimum wall thickness of all inner and outer capsules is 0.635 mm (0.025 in.) and minimum plug thickness for each capsule is 1.27 mm (0.05 in.). Source construction must be in accordance with attached New England Nuclear Corporation Drawing No. 313-26, Rev. A (Model NER-550), or Model NER-560-A (Model NER-560-A).
- 3. Radioactive Contents For the Model NER-550, not more than 37 GBq (1.0 Ci) of Americium-241. For the Model NER-560-A, not more than 2.22 GBq (60 mCi) of Americium-241 and 0.407 GBq (11 mCi) of Cesium-137. The Am-241 is in the form of americium oxide, mixed with beryllium powder and compressed into a pellet. The Cs-137 is in the form of CsCl in a glass fiber.

"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.

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4. Special Conditions -

- a. Model NER-550 and NER-560-A sources must be installed in NIC-5 moisture density gauges being transported for disposal purposes or in a AN/UDM-10 Neutron Calibrator transported within a Type A package.
- b. Sources must have no known or suspected defects.
- c. Sources must have a current satisfactory leak test in accordance with license conditions.
- 5. 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.
- 6. <u>Expiration Date</u> This certificate expires on August 31, 2028. 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 July 18, 2023 petition by Department of the Navy, Washington, DC, and in consideration of other information on file in this Office.

Certified By:

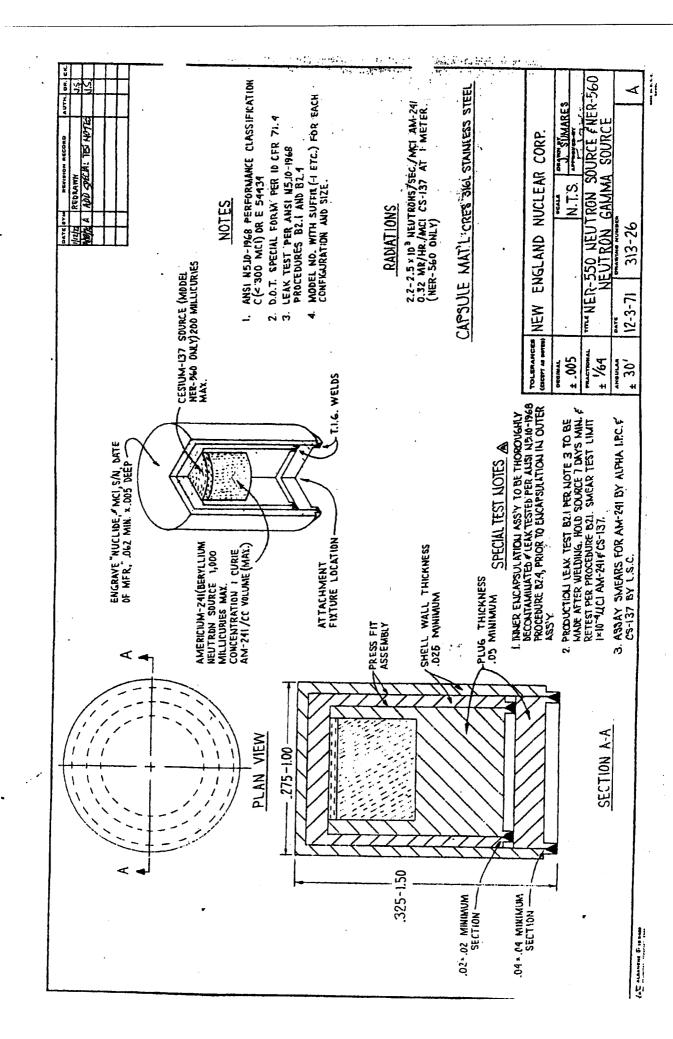
William Schoonover

Associate Administrator for Hazardous

Materials Safety

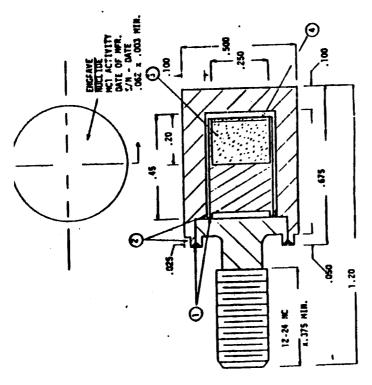
August 15, 2023 (DATE)

Revision 8 - Issued to extend the expiration date.



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MODEL NER-560-A





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Pipeline and Hazardous Materials Safety Administration

CERTIFICATE NUMBER: USA/0161/S-96

ORIGINAL REGISTRANT(S):

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