

## IAEA CERTIFICATE OF COMPETENT AUTHORITY SPECIAL FORM RADIOACTIVE MATERIALS CERTIFICATE USA/0158/S-96, REVISION 8

East Building, PHH-23 1200 New Jersey Avenue Southeast ITY 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 Agency<sup>1</sup> and the United States of America<sup>2</sup> for the transport of radioactive material.

- 1. <u>Source Identification</u> E.I. DuPont/New England Nuclear Model NER-479C.
- 2. <u>Source Description</u> Cylindrical single encapsulation made of Type 316L stainless steel and heli-arc seal welded. Approximate outer dimensions range from 15.2 mm (0.6 in.) to 38.1 mm (1.5 in.) in diameter and 5.6 mm (0.22 in.) to 12.7 mm (0.5 in.) in length. The active face has a wall thickness of approximately 0.25 mm (0.01 in.). Construction shall be in accordance with attached New England Nuclear Corp. Drawing No. 313-306, dated 9-11-78.
- 3. <u>Radioactive Contents</u> No more than 74.0 GBq (2.0 Ci) of Americium-241. The Am-241 is in the form of a ceramic.
- 4. Quality Assurance Records of Quality Assurance activities required by Paragraph 310 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 applicable requirements of Subpart H of 10 CFR 71.
- 5. Expiration Date This certificate expires on August 31, 2021.

<sup>&</sup>lt;sup>1</sup> "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.

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

## CERTIFICATE USA/0158/S-96, REVISION 8

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.

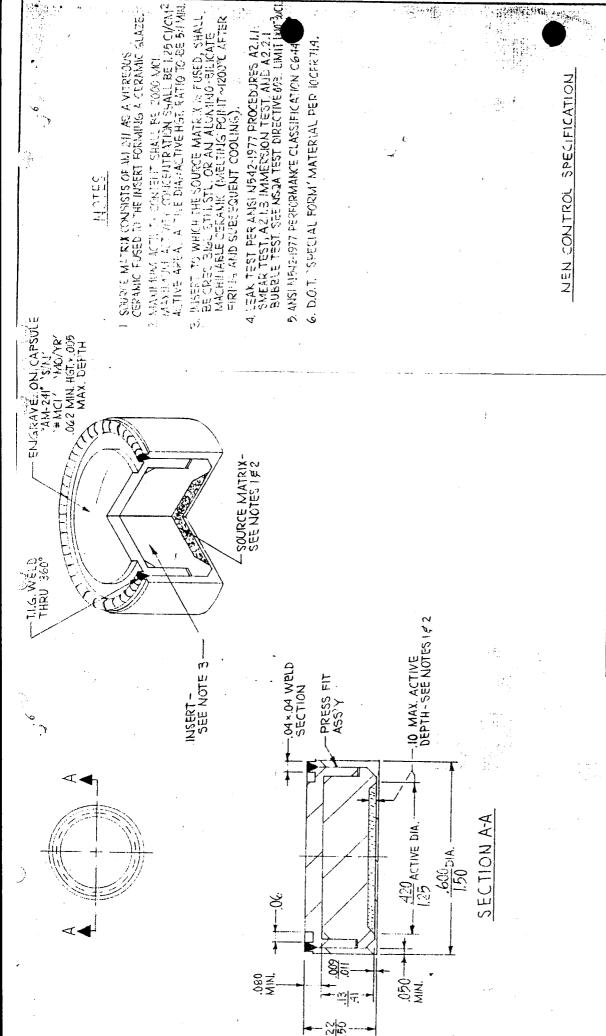
Certified By:

William Schoonover Aug 22 2016

(DATE)

Acting Associate Administrator for Hazardous Materials Safety

Revision 8 - Issued to extend the expiration date.



| MATE     | MATERIAL SPECIFICATIONS | FRACTI | FRACTIONAL | DECHMAL              | ANGULAR               |  |
|----------|-------------------------|--------|------------|----------------------|-----------------------|--|
| CRES 3   | CRES 316L STALSTL.      | ± 1/64 |            | 08 = 300 = 30,       | <b>≠</b> 30′          | S = 30 NEW ENGLAND NUCLEAR CORP.   |
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| CHECKED  |                         |        | 7-         | 1.78                 | ر<br>ارا<br>ا         | NUC-4/2C AM-44   「L. L. L. L. J. J. D.   |
| APPR'D   | 11. 4-2011              |        | N OO       | DO NOT SCALE DRAWING | DRAWING               | 一般ののかのうとしていることというとして   |



U.S. Department of Transportation

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

Pipeline and Hazardous Materials Safety Administration

**CERTIFICATE NUMBER:** USA/0158/S-96, Revision 8

## **ORIGINAL REGISTRANT(S):**

Ms. Mary Shepherd Vice President J.L. Shepherd & Associates 1010 Arroyo Ave. San Fernando, 91340-1822 USA