

April 2, 2021

**SENT VIA OVERNIGHT COURIER (UPS)**

U.S. Nuclear Regulatory Commission  
Washington, DC 20555-0001

Attention: Document Control Room

Subject: Nickel Seal Ring Heat Treatment Dedication  
Final Report per 10 CFR Part 21

Reference: ML20024E245 10 CFR Part 21 Interim Report re: Nickel Seal Rings

Fluke has completed an evaluation pertaining to possible non-conformance in commercial grade dedication of heat treatment in 877-1-60-1 and 877-1-60-2 nickel seals initially reported to the NRC on January 20, 2020.

Fluke tested the nickel seals as part of a cable assembly under worst case conditions representative of a loss of coolant accident. The tested nickel seals were prepared to a worst-case bounding condition that had a harder initial material condition and had no heat treatment performed after machining. Nickel seals with this bounding condition showed no degradation of the basic safety function to provide sealing, allowing electrical signals to properly pass through the connector.

Fluke determined through testing that heat treatment of the 877-1-60-1 and 877-1-60-2 nickel seals is not required for the seals to perform their intended safety function. Heat treatment is therefore not a critical characteristic that needs to be verified during commercial grade dedication. Therefore, Fluke concluded that no defect exists with the heat treatment of seals which were previously shipped to licensees.

We have implemented permanent corrective actions regarding commercial grade dedication and are informing customers of the results of the evaluation.

Please contact Steve Fisher-Jones at [steve.fisher-jones@flukebiomedical.com](mailto:steve.fisher-jones@flukebiomedical.com) or +1 (440) 514-3612 with any questions.

Sincerely,

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