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10 CFR 21.21(a)(2)  
10 CFR 50.4

ATTN: Document Control Desk  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555-0001

Duke Energy Carolinas, LLC  
McGuire Nuclear Station, Units 1 and 2  
Docket Nos. 50-369 and 50-370  
Renewed License Nos. NFP-9 and NFP-17

SUBJECT: Interim Report of a Deviation or Failure to Comply

In accordance with 10 CFR 21.21(a)(2), Duke Energy Carolinas, LLC (Duke Energy) is submitting this interim report for McGuire Nuclear Station (MNS), Units 1 and 2.

On September 27, 2021, during post-maintenance testing, the 2B Diesel Generator (DG) output breaker, 2ETB-2, failed to close on demand due to a stuck open contact on a Cutler-Hammer relay (D26MRD704A1, 12-pole, PQL-1, CATID 268228) dedicated by Framatome. Failure analysis found molded plastic flashing within the relay that interfered with proper contact state change. On February 24, 2022, MNS completed its 10 CFR Part 21 discovery process and determined the need to perform a 10 CFR Part 21 Evaluation. The nature of the defect is such that it may have been introduced during the manufacturing process. This is the first known documented occurrence of this failure mechanism.

On March 31, 2022, Framatome voluntarily agreed to take responsibility for further evaluation of this potential 10 CFR Part 21 issue but did not specify when the evaluation would be complete. This condition is being tracked in the MNS Corrective Action Program as Nuclear Condition Report 2414739. Since the 10 CFR Part 21 Evaluation cannot be completed within 60 days of discovery, MNS is submitting this interim report.

There are no new regulatory commitments contained within this letter. If you have any questions, please contact Jeff Thomas at (980) 875-4499.

Sincerely,

Edward R. Pigott  
Duke Energy  
McGuire Nuclear Station  
Site Vice President

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