Q. **Reference: Replace Protective Relays (2027-2028); Response to PUB-NLH-038**

a) Reconcile the reported replacement of 1,500 electromechanical relays with the installation of 50 microprocessor-based relays, given Hydro's statement that each microprocessor-based relay typically replaces three electromechanical relays.

b) If each microprocessor-based relay typically replaces three electromechanical relays, the remaining 304 electromechanical relays would require approximately 101 microprocessor-based relays. Explain what constraints prevent Hydro from accelerating the program to complete all remaining replacements before 2037.

A. **a)** The 50 relays referenced in Newfoundland and Labrador Hydro's ("Hydro") response to PUB-NLH-038 of this proceeding is a typographical error. The correct number of microprocessor-based relays installed is 500.

b) Hydro considers several factors in the planning of this program execution, which would impact the number of replacements done to 2037. Resource and schedule optimization is the main driver as Hydro seeks to strike a balance between reliability and cost. Should the schedule allow, acceleration of the installation of relays before 2037, these additions would necessitate program budget increases, as Hydro would require external resources to complete the work.