Q. Further to the response to NP-NLH-001:

a) Was the addition of voltage regulators or capacitors considered as an alternative to address voltage regulation when the Upgrade Worst-Performing Distribution Feeders (2025-2027) program ("WPF Program") was first proposed? If not, why not?

b) In the absence of the service request from the customer, would voltage regulators have been the least cost solution to address voltage regulation? If yes, provide an estimate of installing additional voltage regulators or capacitors on EHW-01 distribution feeder. If not, why not?

c) Confirm that the WPF Program scope of work planned to replace 20 kilometers of the initial 23 kilometres from the substation with 1/0 conductor. If yes, confirm that the remaining 3 kilometres of 1/0 conductor is in good condition and would not need to be replaced.

A. **a)** Consideration of voltage regulation was not part of the Worst-Performing Feeders Program[1] when it was first proposed. After the Worst Performing Feeders Program was approved and moved into the detailed design phase, a sizing analysis was completed to determine what size of conductor should be installed in place of the existing conductor. As this was an equipment sizing analysis and not a detailed study on voltage regulation, the addition of voltage regulators or capacitor banks were not considered at that time. As noted in PUB-NLH-005 of this proceeding, this analysis occurred simultaneously with Newfoundland and Labrador Hydro's review of the work necessary to meet the Customer's new service request, and efforts regarding voltage regulation were primarily focused on the impact of the new service request. Efforts prior to the development of the Worst Performing Feeders Program

[1] Please refer to the *Upgrade Worst-Performing Distribution Feeders (2025–2027) Program* ("Worst Performing Feeders Program"), which was included as Program 2 of the 2025 Capital Budget Application, (Newfoundland and Labrador Hydro, July 16, 2024). In the 2026 Capital Budget Application, Newfoundland and Labrador Hydro ("Hydro") recategorized the Upgrade Worst Performing Distribution Feeders Program to a project.

and the new service request were focused on system balancing to address the criteria violations as referenced in PUB-NLH-005 Part c) of this proceeding.

b) No, voltage regulation would not have been a solution to address voltage regulation as it would have increased temporary over voltages.

c) It is not confirmed. The Worst Performing Feeders Program included replacement of 23 km of the initial 23 km from the substation with 1/0 AASC conductor, not 20 km[2].

[2] *2025 Capital Budget Application*, Schedule 7, Program 2, p. 18 (PDF p. 459).