

1 Q. **Reference: *Structural Capacity Assessment of the Labrador Island Transmission Link (LITL)*,**  
2 ***EFLA, April 28, 2020, page 23.***

3 *“PLS-Cadd software was used to calculate forces in all towers and cable sections based on*  
4 *settings from the “as-design” line using the ruling span concept (Level 1) analysis.”*

5 Did EFLA conduct any Finite Element analysis of the LIL including the use of the PLS-Cadd Finite  
6 Element analysis tool? If so, please provide the results of the analysis. If not, why not?

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9 A. Throughout the study, finite element analysis was used on an as required basis to troubleshoot  
10 minor tower modelling issues that EFLA Consulting Engineers (“EFLA”) experienced. Please refer  
11 to Newfoundland and Labrador Hydro’s (“Hydro”) response to NP-NLH-014 for additional  
12 information on the issues encountered.

13 It is Hydro’s opinion that widespread finite element analysis was not warranted for the purpose  
14 of marginal changes in results. EFLA conducted the study using software that is industry  
15 standard and the results from the assessment were in line with findings from the previous study,  
16 with no issues identified which would have required further in-depth and detailed re-analysis.