

- 1 Q. Reference: Response to Request for Information NP-NLH-004
2 The response to Request for Information NP-NLH-004 states on Page 3 of 57 at lines
3 8-9:
4 *"No structure was loaded beyond 100% of its as-designed structural capacity in any*
5 *of these scenarios."*
6 Please describe in detail, the process used and the assumptions made to verify that
7 the Labrador Island Link towers were not loaded beyond 100% of the as-designed
8 structural capacity. In the response, please provide a table showing tower load
9 cases used for checking each tower.
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- 12 A. Towers are designed using generic loads. After detailing phase, each and every
13 tower is modelled as per its actual members and connection details using PLS-
14 Tower. Then these models are imported into the line design software (PLS-CADD)
15 and checked for loading of members with actual loads at the actual location of the
16 tower, by using the suitable load and strength factors (Method 4). It is ensured that
17 no member of the tower exceeds 100% usage. Published usage ratings are for the
18 highest utilized member of the tower only. With respect to a table showing tower
19 load cases, refer to Hydro's response to NP-NLH-004, as the loads described in that
20 response are input directly into PLS-CADD.