

1 Q. **Reference: 2024 Resource Adequacy Plan**

2 Please refer to Resource Adequacy Plan Filing, Appendix B, page 15 of 57, line 6. Please provide
3 for the Transmission Model, in Excel format:

4 a) Inputs

5 b) Assumptions

6 c) Outputs/Results

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9 A. Newfoundland and Labrador Hydro uses the Power System Simulator for Engineers (PSS®E)
10 program for completing its transmission planning/power system analysis studies. The
11 Transmission Planning Department maintains system models in the current version of PSS®E to
12 represent the Island and Labrador Interconnected Systems.

13 The load flow analysis performed for the 2024 Resource Adequacy Plan required modifying these
14 models to best represent the various generation expansion plan scenarios. The inputs provided
15 to Transmission Planning are provided in PUB-NLH-329, Attachment 1a and 1b.¹ The assumptions
16 and results for the load flow analysis are summarized in PUB-NLH-329, Attachment 2.

¹ The inputs includes load forecasts and timing of generation additions for each expansion plan.