

- 1 **Q:** (Liberty December 17, 2014 Report to Board on *Supply Issues and Power*
2 *Outages Review Island Interconnected System* addressing Newfoundland and
3 Labrador Hydro) Discussion on page 16 relates to use of a P50 versus a P90
4 load forecast for planning purposes. Do other utilities incorporate a load
5 profile in their modeling programs that incorporate load forecast uncertainty
6 according to a probability distribution function? Would this not produce more
7 meaningful results, and satisfy both Hydro and Liberty points of view on this
8 issue?
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- 11 **A.** We interpret the “load forecast uncertainty” referred to in this question as referring
12 to weather variations. Utilities use a list of actual weather results, tabulated on an
13 annual basis over a given number of years. Hydro uses 30 years. This list, when
14 sorted and plotted on a 0 to 100% scale, is in fact a probability distribution function
15 from which suitable probabilities (e.g., P50, P90, etc.) can be extracted. Thus,
16 Hydro already uses a probability distribution function.