

- 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.