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1 **Q**: (Liberty December 17, 2014 Report to Board on Supply Issues and Power 2 Outages Review Island Interconnected System addressing Newfoundland and Labrador Hydro) It is stated (page 10) in reference to Mr. Weber: "... where 3 4 he produced major improvements in SAIFI and SAIDI performance." In Mr. 5 Weber's experience, how do utilities balance improvements in transmission 6 and distribution reliability with the impact on rates and customer willingness to pay? Further, how do utilities incorporate the "value" of transmission 7 8 reliability improvements with impacts on power system/market costs? For 9 example, should a utility forego reliability improvement programs on a poorly 10 performing transmission line if outages on the line have limited impact on 11 power production costs or market prices, and instead focus on the reliability of 12 better performing lines when outages have a major impact on power 13 production costs/market prices?

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- 16 A. A major challenge of managing the reliability function is to improve the reliability 17 of the transmission and distribution systems without materially increasing customer 18 rates. Most utilities use some form of Asset Management, which provides a method 19 to ensure that both capital and operating funds are used to produce the best 20 outcomes, of which reliability improvement is but one criterion. Other criteria may 21 include safety and regulatory mandates, for example. Reliability improvements are 22 not typically "valued" in a direct economic or cost sense. Determining "value" is 23 subjective and in any event problematic to quantify. Improvements in standard 24 reliability metrics, such as SAIFI, CAIDI and number of Momentary Outages are 25 more meaningful.
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27 With respect to trade-offs between investments that will reduce costs versus those 28 that will increase them, but improve reliability, note first that the former do not 29 generally compete with reliability projects, because cost saving projects do not 30 cause net expenditure increases but reductions. Second, properly assessing value, 31 which includes service improvements may nevertheless place first priority in 32 improving "poorly performing" facilities first, even if their costs are comparatively 33 higher than for those projects that produce some offset in other costs or increases in revenues. That would depend on the degree of reliability improvement to be 34 35 secured by pursuing the "poorly performing" facility's improvement. Third, it is 36 artificial to look at simple binary choices, as planning for a complex utility system 37 involves consideration of a multitude of needs, many frequently achievable through 38 multiple options having different results, and all addressable not simply by 39 accepting and rejecting, but also by advancing and deferring somewhat.