Q. System Reliability

Further to the response to PUB-NLH-105 confirm that Hydro does not have transmission or distribution "reliability" engineers nor specific on-going annual reliability enhancement programs addressing worse performing feeders, multiple device operations, or any programs specifically addressing reliability indices, such as number of customer interruptions, and System Average Interruption Frequency Index (SAIFI) or System Average Interruption Duration Index (SAIDI), but that Hydro does include weighted scoring of project reliability improvements as part of its equipment upgrades, replacements, and additions projects.

A. Hydro does not have distribution or transmission reliability engineers solely dedicated to system performance and reliability. However, Hydro does have equipment engineers that investigate worse performing feeders and multiple device operations. Please refer to Hydro's responses to PUB-NLH-335 and PUB-NLH-337, which are reproduced below:

Hydro's response to PUB-NLH-335: "Since the inception of the Long
Term Asset Planning Department in 2010, Hydro has developed a
systematic program for addressing its worse performing feeders. Worse
performing feeders are identified through the analysis of key
performance indicators SAIFI and SAIDI. The condition assessment
inspections are reviewed for all feeders and correlated to the worse
performing ones. A long-term plan is created to address deficiencies and
the work is prioritized based on condition, and worse performers."

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1	 Hydro's response to PUB-NLH-337: "Hydro monitors the number of
2	operations on distribution related protective devices on a monthly basis.
3	If it is observed that a protective device has an abnormally high number
4	of operations, then a technical assessment work order is created to
5	investigate the causes. The findings of the assessment, and the remedial
6	actions required would then dictate whether the issues can be resolved
7	through Operation and Maintenance (O&M) work or by capital projects.
8	
9	Hydro does include weighted scoring of project reliability improvements as part of
10	its capital program. SAIDI and SAIFI are analyzed down to the equipment
11	component level in order to understand which components in a system are causing
12	the trouble. Replacing or refurbishing a component that is contributing to the poor
13	performance of a system will thereby lead to the reduction of the overall SAIDI and
14	SAIFI numbers and an improvement in reliability.