1 2	Q.	Reference: Failure Investigation Report – L3501/2 Tower and Conductor Damage, Icing Event January 2021 in Labrador (January 2021 Icing Event Report), page 71.
3		Is the fact that with unbalanced load it is possible for the insulator to swing and contact the
4		conductor considered a design deficiency? What steps is Hydro taking to eliminate this
5		condition?
6		
7		
8	Α.	It was determined that an unbalanced ice load with a difference of 4.5 kg/m is required to cause
9		the electrode insulator assembly to swing to the extent it will contact the conductor. The
10		Labrador-Island Link was designed for an unbalanced ice load with a difference of 2.1 kg/m. The
11		larger difference in ice load was outside the parameters of the original design loading and
12		insulator assembly design and is thus not considered a design deficiency. This occurrence is not
13		thought to have contributed to the failure of the conductor as a small dent in the conductor will
14		not decrease the conductor's tensile strength. There are no plans to modify the insulator
15		assembly as the occurrence is not thought to have contributed to the failure.