1	Q.	Further to CA-NLH-53, will the primary and back-up auxiliary power supplies both
2		be impacted by voltage disturbances on the AC transmission or AC retail
3		distribution networks?
4		
5		
6	A.	Station service power for the Muskrat Falls and Soldiers Pond converter stations are
7		to be supplied from a minimum of two independent, secure sources. The design of
8		the HVdc transmission system, including converter stations, transition compounds,
9		and terminal stations is such that the failure of a single system element will not
10		cause a reduction in power transfer capacity.
11		
12		Loads supplied by the auxiliary power system are designed so that momentary
13		voltage and frequency variations can be tolerated. Equipment is designed to ensure
14		that the HVdc system can remain online under low-voltage conditions caused by
15		critical faults or other contingencies. In the event of a drop-out of critical
16		equipment such as a cooling motor or a pump, the equipment is designed to restart
17		automatically when the voltage recovers to ensure that converter equipment will
18		continue to function without interruption and without the need for manual
19		intervention.
20		
21		There shall be no curtailment of transmission and no discontinuity of the operation
22		of protection and monitoring systems in the event of the loss of one auxiliary power
23		source or transformer.