

1 Q. The SNC Lavalin Stability Studies dated March 2012, filed as Appendix C10 with
2 Hydro's Application dated April 30, 2014 for Approval to Upgrade the Transmission
3 Line Corridor from Bay D'Espoir to Western Avalon, identified the potential need for
4 195Mvar of shunt compensation at Bottom Brook. Is this reactive power
5 compensation still required? If so, please state how this will be provided. If not,
6 please explain why the requirement no longer exists.

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9 A. Reactive power compensation will be required at Bottom Brook for the operation of
10 the Bottom Brook converter station. Each pole of the voltage source converter for
11 the Maritime Link (ML) at Bottom Brook will be equipped with a reactive power
12 range of ± 125 MVAR and 250 MW, for a total station rating of ± 250 MVAR and 500
13 MW. Detailed system studies have been initiated with the ML vendor to assess the
14 total reactive power requirement such that the converter equipment may enter the
15 final design and manufacturing stages.