

1 Q. Please explain the changes in load transfers Pre and Post HVDC in Figures 3 and 4
2 [page 4] of the Teshmont Report, including the reasons for the increase in load
3 transfers to the east of the IIS and further to the Maritime Link.

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6 A. Variations in the load flow cases are associated with the system reconfigurations
7 associated with the HVdc interconnections.

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9 In the eastern portion of the IIS, Soldiers Pond Terminal Station is established as
10 part of the Labrador-Island Link HVdc interconnection and serves as a primary
11 source of supply for load centres on the Avalon Peninsula. This is in contrast to the
12 pre-HVdc scenario where power delivery on the Avalon Peninsula is provided by the
13 Holyrood Plant and the 230 kV transmission lines that transport power from
14 hydraulic generation in the western portion of the province.

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16 In the Post-HVdc scenario depicted in Figure 4, inflow over the HVdc link is at rated
17 capacity. In this scenario, the power flow over the Labrador-Island Link exceeds
18 Avalon Peninsula demand and excess power is transmitted west to meet demand in
19 the remainder of the IIS as well as Maritime-Island HVdc Link export commitments.

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21 It is noted that an alternative peak load dispatch could involve all hydraulic
22 generation operating at rated capacity and, in this alternative; power flow over the
23 Labrador-Island HVdc Link is reduced. The variations in initial load flow conditions
24 are immaterial to the analysis as it is understood that generators would be re-
25 dispatched following a contingency.