

1 Q. Please refer to page 49 of the Upgrade Transmission Line Corridor Report. Please
2 explain how the Maritime Link HVDC scheme was represented in the additional
3 transient stability study performed with this link in service. In the response include
4 the type of HVDC scheme represented (LCC or VSC), the operating mode of the
5 scheme, i.e. import or export to/from Newfoundland, whether the Maritime Link
6 supported the Newfoundland ac network through ac voltage control or reactive
7 power control during the event and whether the Maritime Link change operating
8 mode (import/export and/or reactive power) during the event.

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11 A. For the purposes of this investigation, the Maritime Link was modeled as a VSC
12 system using the PSS®E HVDC Light® Open model Version 1.1.10 from ABB. The case
13 discussed on page 49 of the Upgrade Transmission Line Corridor Report is
14 representative of a peak load condition where 158 MW is being exported from
15 Newfoundland to Nova Scotia. The system is configured to operate in an ac voltage
16 control mode at Bottom Brook Terminal Station. The system is specified with active
17 power limit of +/-250 MW per pole and a maximum reactive power limit of +/-125
18 MVAR per pole.