

1 Q. Reference PUB-NLH-509: Please provide the extracts from PUB-NLH-124 and PUB-
2 NLH-212 Attachment 2 which provides the reliability information for the HVDC
3 switching stations at the intersection of the HVDC OHL and the HVDC cables at the
4 Strait of Belle Isle (referred to as the transition compounds in your reply to PUB-
5 NLH-509).

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8 A. PUB-NLH-124 and PUB-NLH-212 Attachment 2 do not provide detailed reliability
9 information for the HVdc transition compounds. SNC's original transition compound
10 design included a building to house the submarine cable terminations and
11 associated surge arrestors, disconnect switches and ground switches. The design
12 would greatly diminish the risk of equipment failure due to environmental
13 conditions. Therefore, it is understood that SNC considered the reliability impact of
14 the switching station to be insignificant. During the project optimization process it
15 was determined that the equipment would be installed outdoors and open to the
16 elements. As a result, high creepage insulation will be installed on all equipment to
17 prevent flash overs due to environmental contamination. Since the change in the
18 transition compound design there have not been any further studies completed to
19 determine the reliability. GE Grid will be providing Nalcor Energy with a detailed
20 Reliability, Availability and Maintainability (RAM) analysis by the end of this year.