Manitoba
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Questions for Nalcor, request 6

CPW Analysis

MHI-NALCOR-117 The response to RFI MHI-Nalcor-58 which included CE-53, this document does not provide enough information to be able to determine how the calculations were formulated. Please resubmit CE-53 as a new Excel workbook (called CE-53 Revision 1), containing hard-coded data only for input parameters that have a documented external source, and formulas in all other cells requiring calculation. Colour these input cells yellow and indicate the source. Please include all data within the same workbook that is used by the worksheet that results in the figures already displaced in CE-53.

MHI-NALCOR-118 Please explain the progression or explain why the total cost estimate values for the SOBI Crossing differ between the response to MHI-Nalcor-7 and that documented in CE-44 page 31.

MHI-NALCOR-119 In Exhibit 49.2(d) HVDC losses are shown at 5%. Please explain the discrepancy between this value and the 10% worst case value shown in the response to MHI-NALCOR-62.

MHI-NALCOR-120 In reference to CE-45, RFI-49.3 and Exhibit 3, the calculated weighted average composite escalation rates from 2011-2017 result in different rates. Please explain which escalation rates were used in the Strategist software for the CPW Analysis.

MHI-NALCOR-121 Please explain the difference for the Island Pond total development costs (Jan 2010 dollars) in Exhibit 5 from what was provided in the SNC Lavalin engineering report Exhibit 5b Rev. 1, page 80 (Dec 2006 dollars).

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MHI-NALCOR-122 With reference to the response to MHI-Nalcor-13, page 3 of 3, 2010 PLF Forecast, Energy Balance and LOLH Results, Labrador HVDC Link, please describe the source(s) for the addition of 5,943.0 GW.h in 2017.

Load Forecasting

MHI-NALCOR-123 Please provide information on Total Island Energy Requirements (GW.h) and Total Island Peak Demand (MW) forecasts prepared since 2000. The response should be prepared in a format similar to information previously provided on Exhibit 46. As part of this request, please also provide the actual and weather-adjusted figures for the categories requested above for the 2000-2010 period, similar to page 1 of Exhibit 46.

SOBI Marine Crossing

MHI-NALCOR-124 Please provide the thermal design parameters (ambient temperature range, and ground thermal resistivity) for the following marine crossing segments:

i. land installations
ii. HDD installations where the cables are in a tube
iii. Sea bed installation with rock berm.

For each of these three installations, also provide the cable burial depth and separation details.