

PUB-Nalcor-108
Muskrat Falls Review

Page 1 of 1

1 Q. On p. 32 of Exhibit 101, Navigant states as a key finding that additional wind power
2 could be considered in the Isolated Island alternative, provided power system
3 constraints identified in the 2004 wind integration study can be addressed cost
4 effectively. Has Nalcor or Navigant studied how the power system constraints could
5 be addressed and at what cost? If yes, please provide copies of the studies
6 completed.

7
8
9 A. No further studies of means to address the power system constraints (water
10 management, frequency control, and transmission limitations) identified in the
11 2004 wind integration study (Exhibit 61) have been undertaken.

12
13 A sensitivity analysis was completed to determine the impact of the addition of 200
14 MW of wind generation (100 MW in 2025 and 100 MW in 2035) on the CPW
15 analysis. The results, shown on page 64 of Exhibit 101, indicate that the addition of
16 200 MW of wind reduced the CPW preference for the Island Interconnected
17 scenario over the Island Isolated scenario to \$1,717 M, a reduction of \$441 M over
18 the reference plan. No allowance for expenditures necessary to address the water
19 management, frequency control, and transmission constraints was included in this
20 sensitivity.

21
22 Prior to DG3 NLH will complete an update of the 2004 wind integration study that
23 will confirm integration limitations for both current and anticipated future Island
24 load conditions.