Q. 1 Please explain the difference between this generation requirement and that 2 scheduled as part of the Labrador Infeed Option, commonly referred to as the 3 Muskrat Falls option which has now been sanctioned. 4 5 6 A. This generation requirement is basically the same generation requirement as the 7 one scheduled as part of the Labrador Infeed Option, commonly referred to as the 8 Muskrat Falls option which has now been sanctioned, except that a 100 MW 9 combustion turbine is now recommended, instead of the 60 MW combustion 10 turbine previously recommended. 11 12 As discussed in the Sensitivity Analysis section (page 3) of the Executive Summary of 13 the submission, the 60 MW CT would meet Base Case requirements for reliability. 14 However, as a result of the system outages in early January, Hydro initiated an 15 independent review of its generation capacity planning processes. This was 16 conducted by Ventyx, an ABB company, and its purpose was to determine whether 17 Hydro's planning processes should have established a requirement for additional 18 generation capacity prior to January 2014. This review determined that the 19 generation planning capacity processes followed accepted practices and that the 20 installed generation capacity on the Island Interconnected System met established 21 reliability criteria. The review, however, did result in recommendations that 22 generation capacity addition analysis include enhanced sensitivity analysis on 23 generating unit reliability performance and increased customer demand. 24 25 Based on the recommendations of Ventyx, Hydro expanded its 2013 Base Case 26 analysis to include sensitivities to show the impact on capacity supply reliability 27 with:

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1	 Reduced thermal generation availability;
2	2. Load forecast based on extreme weather; and
3	3. A combination of reduced availability and extreme load forecast.
4	
5	The results of that analysis indicated that to meet the capacity supply reliability
6	criteria under the assessed sensitivities, the following changes in scheduled in
7	service and capacity size would be required:
8	
9	1. Reduced thermal generation availability would require a 100 MW
10	combustion turbine in service in December 2014 or a combination of 60 MW
11	interruptible arrangements in service in December 2014 with a 60 MW
12	combustion turbine installed in December 2015;
13	2. Load forecast based on extreme weather would require a 100 MW
14	combustion turbine in service in December 2014; and
15	3. Combination of reduced availability and extreme load forecast would
16	require a combination of a 100 MW combustion turbine and 60 MW
17	interruptible arrangements with all in service in December 2014.
18	
19	The sensitivity analysis demonstrated a reliability benefit for a 100 MW combustion
20	turbine over the 60 MW unit. In addition, given the unit being proposed has a
21	capacity of 120 MW and can be acquired at a cost comparable to a new 60 MW
22	turbine, the unit is being recommended as the preferred least coat solution.