

1 Q. Please explain in detail how NLH would replace the power foreseen under the  
2 MFPPA in the event that said power is unavailable for any given hour or for a longer  
3 period.

4

5

6 A. The Muskrat Falls PPA provides for the delivery of power to Hydro at Muskrat Falls  
7 as scheduled by Hydro. The Muskrat Falls plant consists of four 206 MW generating  
8 units. These are being designed to meet high reliability requirements through a  
9 unitized design that limits the potential for failures, which can affect more than one  
10 generating unit. In addition, the units are being interconnected with the Churchill  
11 Falls plant and the Labrador-Island Link through a highly reliable interconnection  
12 terminal station design.

13

14 Through its generation planning process, Hydro will maintain levels of reserve  
15 generation throughout the combined Labrador and Island power system reflecting  
16 generator forced outage probabilities for all generating units in the province,  
17 including the units at Muskrat Falls. The in province resources will include the on-  
18 island generating capability of 1,290 MW, the 300 MW recall agreement with  
19 CF(L)Co, the 27 MW gas turbine in Happy Valley/Goose Bay and interruptible load  
20 arrangements with customers. Upon the completion of the Labrador-Island Link and  
21 the Maritime Link, the Island of Newfoundland will, for the first time, have access to  
22 electricity from neighbouring utilities. This is a benefit other electrical systems  
23 throughout North America have enjoyed for decades to improve reliability through  
24 a larger pool of generation resources and to reduce costs through both the  
25 economic export and import of electricity. These transmission interconnections will,  
26 if necessary, enable the Energy Control Centre operators to utilize emergency

- 1 support from neighbouring utilities and to obtain power through electricity market
- 2 arrangements either through the Quebec or Maritime Link interconnections.