

IN THE MATTER OF the *Public Utilities Act*,
RSN 1990, Chapter P-47 (the "Act"): and

IN THE MATTER OF a General Rate
Application (the Application) by
Newfoundland and Labrador Hydro for
approvals of, under Section 70 of the Act,
changes in the rates to be charged for the
supply of power and energy to
Newfoundland Power, Rural Customers and
Industrial Customers; and under Section 71
of the Act, changes in the Rules and
Regulations applicable to the supply of
electricity to Rural Customers.

IN THE MATTER OF the *Electrical Power
Control Act*, 1994, SNL 1994, Chapter E-5.1
(The "EPCA") And The Public Utilities Act,
RSNL 1990, Chapter P-47 (The "Act"), As
Amended; And

IN THE MATTER OF An Investigation And
Hearing Into Supply Issues And Power
Outages On The Island Interconnected
System.

REQUESTS FOR INFORMATION

THE NEWFOUNDLAND AND LABRADOR PUBLIC UTILITIES BOARD

GRK-NLH-137 to GRK-NLH-141

GRAND RIVERKEEPER LABRADOR INC. (GRK)

Issued December 19, 2016

GRK-NLH-137

Re: ESRA Nov. 2016, p. 9

Citation:

- 3 Hydro bases its generation supply planning decisions on its P90 peak demand forecast.⁷ The
- 4 P90 peak demand forecasts reflects the associated increase in demand over the normalized
- 5 peak demand forecast resulting from instances of severe wind and cold. In those instances, the
- 6 actual peak will exceed the normalized, or P50, figure. The development of the P90 peak
- 7 demand forecast is an extension of Hydro's regularly prepared system operating load forecast.

Question: This statement would suggest that the P90 forecast does not take into account higher than expected load growth, but only weather-related events. Please confirm or correct this interpretation.

If the P90 forecast only incorporates weather-related uncertainty, please explain how Hydro's planning process takes into account the uncertainty in its underlying load forecast.

GRK-NLH-138

Re: ESRA Nov. 2016, s. 5.1.2 (pages 17-22); ESRA May 2016,

Preamble:

In the May 2016 ESRA, Hydro evaluated a number of scenarios, including the fully stressed reference case under both a P50 and a P90 forecast, using DAFOR levels for Holyrood of 10%, 14%, 19% and 24%. In the November 2016 ESRA, Table 2 on page 26 indicates a DAFOR value of 14% for Holyrood. The accompanying text indicates that these ratings are focussed on the near term.

Question:

Please explain why Hydro no longer sees the need to model various levels of DAFOR for Holyrood.

GRK-NLH-139

Re: ESRA Nov. 2016, pages 22-23

Citation:

Hydro has experienced multiple unit outages as a result of fuel valve failures in the newly

installed fuel control valves at Hardwoods. Failure analysis conducted by the valve OEM determined that the valve was being operated in excess of its pressure rating. This was determined to be the likely cause of valve failure, as opposed to a specific issue with the valve.

By moving the fuel supply to the valve to downstream of a pressure regulator rather than upstream from the regulator, the valve was able to be supplied at a lower pressure level. There have been no subsequent pressure induced valve failures.

Question:

Please confirm that this analysis demonstrates that the multiple unit outages at Hardwoods were caused by incorrect installation of the fuel valve upstream of the pressure regulator.

Has Hydro determined the source of this error? Was it due to incorrect information from the manufacturer, or to error on the part of Hydro's management or personnel?

If it was due to information from the manufacturer, have any steps been taken to recover the additional system costs resulting from these outages? If due to Hydro errors, please describe the steps taken in this regard.

GRK-NLH-140

Re: ESRA Nov. 2016, pages 28-29

Citation:

Since the completion of the May Energy Supply Risk Assessment, there has been a decrease in the coincident demand forecast post 2016/17, largely associated with revised customer demand. The change in forecasted customer demand is attributable to the revised Newfoundland Power load forecast (October 7, 2016).

Question:

Please provide a copy of the NP load forecast referred to in the citation, as well as any updated NLH IIS load forecasts that have been prepared taking this change into account.

GRK-NLH-141

Re: ESRA Nov. 2016, Appendix D, page 1 – IIS Generation Supply Table

Question:

Please provide the footnotes referred to in the table.

Please provide a similar IIS Generation Supply Table for the post-interconnection period, indicating the MW values used by Hydro for planning purposes with regard to the Power Purchase Agreement with the Muskrat Falls Corporation.

DATED at Montreal, in the Province of Quebec, this 19th day of December, 2016.



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