



NEWFOUNDLAND AND LABRADOR
BOARD OF COMMISSIONERS OF PUBLIC UTILITIES
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2016-12-16

Ms. Tracey Pennell
Senior Counsel
Newfoundland and Labrador Hydro
P.O. Box 12400
St. John's, NL A1B 4K7

Dear Ms. Pennell:

Re: Investigation and Hearing into Supply Issues and Power Outages on the Island Interconnected System - Phase Two - Requests for Information PUB-NLH-624 to PUB-NLH-639 (Energy Supply Risk Assessment Update, November 30, 2016)

Enclosed are Requests for Information (RFIs) PUB-NLH-624 to PUB-NLH-639 in relation to Energy Supply Risk Assessment Update, November 30, 2016.

If you have any questions, please do not hesitate to contact the Board's Legal Counsel, Ms. Jacqui Glynn, by email, jglynn@pub.nl.ca or telephone (709) 726-6781.

Yours truly,

Cheryl Blundon
Board Secretary

cpj
Enclosure

ecc **Newfoundland and Labrador Hydro**
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1 **IN THE MATTER OF**
2 the *Electrical Power Control Act, 1994*,
3 SNL 1994, Chapter E-5.1 (the “*EPCA*”)
4 and the *Public Utilities Act, RSNL 1990*,
5 Chapter P-47 (the “*Act*”), as amended; and
6

7 **IN THE MATTER OF** the Board’s Investigation
8 and Hearing into Supply Issues and Power Outages
9 on the Island Interconnected System.

**PUBLIC UTILITIES BOARD
REQUESTS FOR INFORMATION**

PUB-NLH-624 to PUB-NLH-639

Issued: December 16, 2016

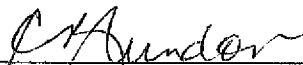
- 1 **PUB-NLH-624** Reference: Energy Supply Risk Assessment Update, November 30, 2016.
2 Please describe the extent to which generation outages are considered in
3 the estimation of transmission losses. Specifically, are allowances made
4 for significant outages of generation closer to the load center with the
5 need for replacement generation located a greater distance from the load
6 center?
7
- 8 **PUB-NLH-625** Reference: Energy Supply Risk Assessment Update, November 30, 2016,
9 page 29, line 1. The discussion of transmission losses implies that full
10 capacity from Holyrood is on line and assumed in the estimation of
11 losses. What is the impact on transmission losses of one or two Holyrood
12 units off at peak demand?
13
- 14 **PUB-NLH-626** Reference: Energy Supply Risk Assessment Update, November 30, 2016,
15 page 28, line 10 to page 29, line 1. Please provide the data submitted to
16 Hydro by Newfoundland Power associated with the October 7, 2016 load
17 forecast. Please include any data reconciling the forecast to prior
18 forecasts.
19
- 20 **PUB-NLH-627** Reference: Energy Supply Risk Assessment Update, November 30, 2016,
21 page 29, footnote 21. Hydro indicates that the trend of Newfoundland
22 Power's load forecasts "are supported by Hydro's own internal forecast
23 models for this service territory". Please provide details on the Hydro
24 models referred to and the data from those models that support the cited
25 trend.
26
- 27 **PUB-NLH-628** Energy Supply Risk Assessment Update, November 30, 2016. Hydro has
28 stated the intent to comply with NERC/NPCC criteria at an as-yet
29 undefined time in the future. NPCC planning criteria require an LOLE of
30 0.1 (Directory 1, Requirement 4). Will compliance with this requirement
31 be delayed until after the actual in-service date of Muskrat Falls or,
32 alternately, if earlier compliance is planned how will the use of a LOLE
33 of 0.1 impact the conclusions in the Energy Supply Risk Assessment
34 Update, November 30, 2016?
35
- 36 **PUB-NLH-629** Reference: Energy Supply Risk Assessment Update, November 30, 2016,
37 pages 36 and 37. Please provide revised Tables 9, 10 and 11 for a revised
38 study period extended to the winter 2021-2022, inclusive.
39
- 40 **PUB-NLH-630** Reference: Energy Supply Risk Assessment Update, November 30, 2016,
41 page 33, line 25. Hydro has assumed that 110 MW of recall power will
42 be available to the IIS via the LIL. Has Hydro completed the studies
43 required to verify that this is technically feasible?
44
- 45 **PUB-NLH-631** Reference: Energy Supply Risk Assessment Update, November 30, 2016,
46 page 19, line 1. Hydro states that the Holyrood units are considered

- 1 available for full load operation “from a reheater tube perspective”. Are
2 the units considered available for full load operation from other
3 perspectives? If no, explain any restrictions on full load that are
4 applicable.
5
- 6 **PUB-NLH-632** Reference: Energy Supply Risk Assessment Update, November 30, 2016,
7 page 34, line 10. Hydro has assumed that the Holyrood units will not run
8 at their gross continuous unit ratings during normal operation. Please
9 describe the conditions and any time limits for which maximum output
10 will be permitted.
11
- 12 **PUB-NLH-633** Reference: Energy Supply Risk Assessment Update, November 30, 2016,
13 page 14, lines 4-8. When is the root cause investigation of the Bay
14 d’Espoir Penstock 1 leak expected to be complete?
15
- 16 **PUB-NLH-634** Reference: Energy Supply Risk Assessment Update, November 30, 2016,
17 Appendix A, page 3. The methodology includes the assumption of a
18 forced outage of 30 days for each Holyrood unit, in addition to other
19 forced outages. Please explain how the 30-day assumption is reflected in
20 the DAFOR estimates, considering that it represents 25% of the peak
21 season (December 1 to March 31).
22
- 23 **PUB-NLH-635** Reference: Energy Supply Risk Assessment Update, November 30, 2016,
24 Appendix A. The DAFORs for the Holyrood units in the off-peak months
25 would seem to be irrelevant and have the potential to provide misleading
26 results. Would it be more appropriate to calculate historical DAFORs for
27 only the on-peak months or, alternately, use UFOP instead of DAFOR?
28 Please comment on how the conclusions regarding Holyrood reliability
29 might differ.
30
- 31 **PUB-NLH-636** Reference: Energy Supply Risk Assessment Update, November 30, 2016,
32 page 26, Table 2 and Appendix A, page 5. Please provide the definition
33 and equation for UFOP, and provide a spreadsheet with the underlying
34 data used by Hydro to calculate UFOP for Hardwoods and Stephenville
35 for the past five years.
36
- 37 **PUB-NLH-637** Reference: Energy Supply Risk Assessment Update, November 30, 2016.
38 It is our understanding that UFOP is a legitimate measure of the
39 probability that a peaking unit will be available, but it does not reflect the
40 probability that the unit will start when asked. On that basis, does
41 Hydro’s use of UFOP in the supply analysis overstate the reliability of
42 Hardwoods and Stephenville? Would an adjustment to UFOP for starting
43 reliability be appropriate?
44
- 45 **PUB-NLH-638** Please provide the actual annual starting reliability (SR in NERC’s
46 GADS system) of Hardwoods and Stephenville for the past five years.

1 **PUB-NLH-639** Reference: Energy Supply Risk Assessment Update, November 30, 2016,
2 page 22, lines 11-13. Has the assessment by GE been completed? If yes,
3 describe the remedial actions identified by GE and the actions planned by
4 Hydro to address the recommendations.

DATED at St. John's, Newfoundland this 16th day of December 2016.

BOARD OF COMMISSIONERS OF PUBLIC UTILITIES

Per 
Cheryl Blundon
Board Secretary