

- 1 Q. Page 9 of the report entitled Eastern Labrador Transmission System – Planning
2 Report (Revision 1 – January 25, 2018) states that “the 7.6 MW increase in the 2017
3 forecast is a direct result of service applications for new data centers”.
- 4 a. Please confirm that the data centre load is coincident with the peak load for
5 Happy Valley – Goose Bay, and describe the load patterns observed among
6 these clients.
- 7 b. Does Hydro have long-term commitments from these data centre customers? If
8 so, please provide the commitment timelines.
- 9 c. Has Hydro completed or reviewed any analyses with respect to price elasticity
10 associated with these types of cryptocurrency data mining centres? Does Hydro
11 expect these data centre customers to remain customers in the Happy Valley –
12 Goose Bay area if electricity costs increase significantly or even moderately
13 given the relative ease with which the data centres can be relocated?
- 14 d. Please confirm whether the increase in load caused by the data centres is 7.6
15 MW or 8.6 MW.
16
17
- 18 A. For questions a., b., and c., please refer to the response to question 1 in
19 “Attachment 1 – Responses to PUB Questions” submitted by Hydro on March 6,
20 2018.
21
- 22 d. The 8.6 MW of load is the sum of the non-coincident individual data center
23 customer loads that have been approved for service and includes two
24 customers with load requirements of 1.3 MW and one customer with a load
25 requirement of 6 MW. Hydro has forecasted the system coincident demand

1 impact from the 8.6 MW of new data center customer loads to be 7.2 MW
2 inclusive of the distribution losses incurred to serve them.

3

4 The 7.6 MW is the increase in forecasted coincident peak demand for Happy
5 Valley's 2017 winter peak between the Fall 2016 Forecast and the Summer 2017
6 Forecast, as indicated in Table 1 of the Eastern Transmission System Report of
7 January 25, 2018 (2018 Capital Budget Application, Volume 2, Tab 13, Appendix
8 A) reflecting the overall change in forecasted demand for the Happy Valley
9 System. The 7.6 MW increase in forecasted coincident peak demand includes
10 the impact of the three new data center customers (7.2 MW) as well as changes
11 to other load forecast inputs (0.4 MW for other forecasted load growth).