

1 Q. Re: “Newfoundland and Labrador Hydro Cost of Service Methodology Review
2 Application,” Pre-Filed Testimony of Andrew McLaren, August 5, 2019. p. 20/6-
3 12.

4 It is stated with respect to classification of the Labrador Transmission Assets
5 (“LTA”) facilities that:

6 *“The Christensen Associates report states the LTA facilities are being put in*
7 *place to enable least cost operation of the combined Churchill Falls and*
8 *Muskrat Falls generation facilities and that they will improve network reliability*
9 *while facilitating energy transfers outside the Province. The fact that the LTA*
10 *improves network reliability suggests it has characteristics in common with*
11 *network transmission assets, rather than simply being a generation lead. For*
12 *those reasons, InterGroup recommends classifying the LTA 100% to demand,*
13 *consistent with Hydro’s other transmission assets.”*

14 a) From a cost causality perspective, would it be more appropriate to
15 describe the purpose of the LTA as the means to facilitate least-cost operation
16 of the combined Churchill Falls and Muskrat Falls?

17 b) Does The InterGroup Consultants Ltd. agree that virtually all
18 transmission facilities contribute to network reliability, regardless of whether
19 they are explicitly built for the following:

20 i. Facilitation of dispatch (e.g., integration of Churchill Falls and
21 Muskrat Falls);

22 ii. Generation leads; or

23 iii. Satisfaction of reliability requirements in view of North American
24 Electric Reliability Corporation reliability standards?

25 c) Does Manitoba Hydro include its HVDC facilities within the pool of
26 transmission assets used to determine transmission charges under Manitoba
27 Hydro’s conforming Open Access Transmission Tariff? How are similar assets
28 treated by BC Hydro?

1 A. a) The question is not clear. Mr. McLaren has already noted that Christensen
2 states that LTA is about least cost operation of generation facilities and improving
3 network reliability while facilitating energy transfers outside the province. It is not
4 clear how (a) differs, except that the word “generation facilities” has been dropped.
5 Does “Churchill Falls” in the question refer to the generating facility, the company
6 (CFLCo) or a larger group of assets? Does “Muskrat Falls” refer to generation or
7 some larger pool of assets? Regardless, Mr. McLaren has accepted the
8 Christensen evidence as portrayed in the quote noted in the preamble to the
9 question.

10 b) Yes, but only in the most token sense. In the same way any asset
11 procured by Hydro, including all generation and distribution as well as general
12 assets like trucks for line personnel, contributes to network reliability.

13 Network transmission assets, in contrast, represent a group of assets that work
14 together to ensure that an overall complement of generation, delivered to the
15 “grid”, can be reliably brought to the various distribution system delivery
16 locations. In this manner, LTA facilities are about far more than just a single
17 facility connection or generator lead. They are AC in nature, they are part of a
18 coordinated network operation, and changes in flows (loads generation output)
19 anywhere on that part of the AC network will affect flows on the LTA. In this
20 manner, it is effectively identical to all other manner of transmission assets.

21 It is only in the most notable outstanding cases where a high voltage wires
22 component of a power system is not functionalized as Transmission, and not
23 classified consistently with all transmission (100% to Demand) – with generator
24 leads being the most common exception. The LTA does not resemble a
25 generator lead, as compared to its close resemblance to grid transmission. For
26 this reason, it is appropriate to functionalize the asset to Transmission and
27 classify based on 100% Demand.

28 c) No, Manitoba Hydro does not include DC wires facilities in its Open
29 Access Transmission Tariff. Mr. McLaren is not aware of whether BC Hydro
30 includes DC wire facilities in its Open Access Tariff. In terms of asset values,
31 BC Hydro has far more limited “generation integration” transmission than
32 Manitoba Hydro or NLH, i.e., far fewer DC wire facilities.