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1	Q.	NLH I	NLH Evidence, Section 5.9.1, p.5.35						
2		Citati	Citation:						
3		Labrador West transmission is nearing its capacity limitations. The cost of pro							
4		new t	new transmission to meet load growth on the Labrador Transmission System is h						
5		and c	and can materially impact future customer rates.						
6									
7		Pleas	Please:						
8		a)	confirm that the transmission lines that are nearing their capacity limitations						
9			are the lines between Churchill Falls and Labrador City indicated in red in the						
10			inset to Exhibit 1, Schedule 1;						
11		b)	Explain the significance, if any, of the fact that there are no numbers						
12			indicated to identify these lines on Exhibit 1, Schedule 1;						
13		c)	confirm that the allusion to the high cost of meeting load growth on the						
14			Labrador Transmission System is a reference to the Labrador West						
15			Transmission Project, referred to in Note 51;						
16		d)	describe in detail the status of this project, which was discussed at length in						
17			the hearing on the 2013 Revised GRA;						
18		e)	indicate how much load growth would be required in Labrador West before						
19			this project would be necessary; and						
20		g)	Confirm whether power purchases from Hydro-Quebec system has been						
21			considered for meeting the Lab West load growth, and disclose any reports						
22			in which the costs of this option have been considered.						

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1	Α.	a)	Yes, the two 230 kV transmission lines connecting Churchill Falls and
2			Labrador City (Wabush Terminal Station) are shown in red in the insert to
3			Exhibit 1, Schedule 1.
4			
5		b)	The fact that there are no numbers indicating the identity of these lines in
6			Exhibit 1, Schedule 1 is an omission. The two lines are identified as L2303
7			and L2304.
8			
9		c)	The statement "The cost of providing new transmission to meet load growth
10			on the Labrador Transmission System is high" as indicated on lines 1 through
11			3 of page 5.35 is a reference to the Labrador West Transmission Project,
12			referred to in Note 51.
13			
14		d)	This project was placed on hold pending a restart decision by Alderon.
15			
16		e)	The existing transmission system supplying western Labrador has a transfer
17			capacity of 345 MW (delivered to the 46 kV bus). Schedule 3-II indicates an
18			IOC load forecast of approximately 245 MW in 2018 and 2019. Of the 162.4
19			MW required for Hydro Rural Interconnected in 2018, 80.6 MW is forecast
20			for supply to western Labrador. Combined, the 2018 peak load for western
21			Labrador equals approximately 326 MW, excluding transmission system
22			losses. Load growth of approximately 19 MW would therefore require an
23			expansion of the transmission system.
24			
25			It must be noted that the existing transmission system only allows for the
26			supply of 345 MW on a non-firm basis and that load must be curtailed for
27			contingencies including the loss of a 230 kV transmission line or a

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1		synchronous condenser or other infrastructure at the Wabush Terminal
2		Station.
3		
4		A transmission planning study is underway to review the reliability of the
5		transmission system in Labrador and to investigate the application of
6		Transmission Planning Criteria. The study will include an assessment of the
7		cost implications of system reinforcements that would be required to serve
8		load on a firm basis and to ensure that terminal stations are configured in
9		accordance with Hydro standards.
10		
11	f)	Please refer to the following Table 1 that provides the disaggregated
12		Labrador West load growth between domestic and Industrial Customers for
13		the 2017 Forecast, 2018 Test Year, and 2019 Test Year.

	2017 Forecast		2018 Test Year		2019 Test Year	
	MW	GWh	MW	GWh	MW	GWh
Hydro Rural Interconnected						
Domestic		175.2		175.0		174.9
General Service		156.3		163.8		172.4
Other		18.9		19.3		19.8
Total Hydro Rural Interconnected	79.5	350.4	80.6	358.3	81.7	367.0
Industrial Customers	245.4	1735.5	245.3	1734.3	245.0	1733.1
Total Deliveries	324.9	2085.9	325.9	2092.6	326.7	2100.1

Table 1 Forecast Electricity Sales for Labrador West

Notes:

1. Other includes area lights, distribution losses and Hydro company use.

2. Demands by retail class are not separately forecasted. Demands for Total Deliveries are the sum of the non-coincident peaks.

3. Table includes rounding errors.

4. On October 11, 2017, Hydro received a request from IOC to increase their power on order for 2018. The requested increase is 5MW relative to the 2018 Test Year customer requirement.

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1g)Hydro is presently studying the power supply options for Labrador West2including supply from Hydro-Quebec.