1	Q.	Reference: Labrador Expansion Study, pages 11 (pdf 19) and Appendix B, page 9 (p. 73			
2		pdf)			
3		Preamble:			
4					
5		Table 3 (page 11) provides a Baseline Coincident Peak forecast for Labrador West growing			
6		from 342.4 MW in 2018 to 382.9 MW in 2043.			
7					
8		Table 2 of Appendix B (page 73 pdf) shows these same values in the column identified as			
9		"baseline peak", and adds separate columns for "Data Centre", rising from 27.1 MW in			
10		2020 to 51.5 MW in 2022 and remaining at that level through 2043, and a final column			
11		"Coincident Peak with Alderon", which appears to add 65 MW to the "Coincident Peak with			
12		Data Centres" column, from 2022 through 2043.			
13					
14		Note 9 to Table 2 specifies that the baseline peak load forecast includes Hydro Rural, IOC			
15		and Tacora.			
16					
17		a) Please break down the Baseline Peak column into:			
18					
19		i) Regular loads excluding and data centre and industrial loads;			
20		ii) Data centre loads; and			
21		iii) Industrial loads.			
22					
23		b) Please explain the source and justification for the forecast of data centre loads found in			
24		Table 2 of Appendix B, which grow from 0 in 2019 to 27.1 MW in 2020 to 51.5 MW in			
25		2022, and remain at that level through 2043.			
26					
27		c) Please describe and quantify Hydro's perception of the uncertainty of these forecast			
28		data centre loads, compared to the other future loads in the forecast. Insofar as Hydro			

1			considers the forecast data centre loads to be more uncertain, please explain how it
2			has integrated that uncertainty into its planning process;
3			
4		d)	Please provide an update on the Alderon project, including Hydro's estimate of the
5			likelihood that it will represent a 65 MW load starting in 2022;
6			
7		e)	Please provide an update regarding any other potential mining projects in Labrador of
8			which Hydro is aware, indicating for each one:
9			
10			i) The amount of power (MW) that would eventually be required;
11			ii) The earliest date at which that power could be required; and
12			iii) Hydro's estimation as to the likelihood that this power will be need at this date.
13			
14		f)	Please discuss what criteria Hydro used to determine which potential loads to include
15			in the Baseline Load Forecast.
16			
17		g)	Please provide a forecast for Labrador East similar to one shown in Table 2 of Appendix
18			B, showing potential future load additions for data centre and other uses.
19			
20			
21	A.	a)	Please refer to Table 2 of Newfoundland and Labrador Hydro's ("Hydro") response to
22		LAI	B-NLH-074.
23			
24		b)	The forecast of data centre load found in the "Labrador Interconnected System
25		Tra	nsmission Expansion Study," App. B, at p. 9, Table 2 reflects Hydro's forecast of the
26		coi	ncident customer loads based on the loads provided by the customers and indicated on
27		the	applications for electrical service received by Hydro. This forecast of customer
28		coi	ncident loads reflects the loads that have not been approved for service and have not
29		be	en included in Hydro's baseline forecast.

c) Hydro does not have data or information available that can be relied upon to quantify the uncertainty of data centre loads reflected in the load forecasts. Hydro has observed via various media reports that the data centre loads forecast for the Labrador Interconnected System represent only a portion of a much larger global demand for the data centre industry. Hydro believes the uncertainty with local data centre load is likely to be associated with the ability of the local industry to remain competitive compared with other jurisdictions. The approach used by Hydro in this instance to integrate load uncertainty into its planning process has been to develop both baseline and sensitivity load forecast cases from which alternate system expansion plans have been developed.

d) There are currently no ongoing discussions between Hydro and Alderon with respect to project start-up timelines. The 65 MW load requirement reflects the information provided to Hydro during previous discussions with Alderon; however, Hydro does not have an estimate of the likelihood that the project will represent a 65 MW load starting in 2022. Hydro considers the project to be probable under certain economic conditions and in that regard has chosen to evaluate the transmission system impacts through the sensitivity analysis included in the study.

e) Hydro is not currently evaluating other potential mining projects in Labrador.

f) Please refer to Hydro's response to PUB-NLH-064.

g) Please refer to the "Labrador Interconnected System Transmission Expansion Study," App A, at p. 4, Table 2, which provides the coincident peak loads in kilowatts of potential future load additions for data centres and the Department of National Defence central heating plant. These forecasted loads would be incremental to the baseline forecast for Labrador East presented in the "Labrador Interconnected System Transmission Expansion Study," Sec. 3.1, at p. 11, Table 3. Hydro notes that the Department of National Defence has subsequently indicated that the peak load for the central heating plant could be as high as 20 MW.