1	Q.	Reference: Reliability and Resource Adequacy Study 2022 Update, Volume I, page 29.	
2		Tal	ple 6 shows the resultant planning reserve margin of 36%.
3		a)	Provide the derivation of the planning reserve margin of 36%, in a form similar to Island
4			LOLE Calculator October 10, 2018 R2.xlsm, provided by Hydro in March 2019;
5		b)	Explain why the planning reserve margin has jumped so much compared to previous values
6			(14% in the 2018 RRAS and 16% in the 2019 Update); and
7		c)	Provide an analysis that shows the value of LOLH equivalent to LOLE=0.1 for the
8			assumptions underlying the 36% planning reserve margin, in a form similar to LOLE
9			Calculator - Benchmarking Study #1.xlsm, provided by Hydro in March 2019.
10			
11			
12	A.	a)	Please refer to PUB-NLH-252, Attachment 1 for a spreadsheet containing the derivation of
13			the Planning Reserve Margin.
14		b)	As stated in the "Reliability and Resource Adequacy Study – 2022 Update," "The proposed
15			planning reserve margin has increased by 20% compared to the 2019 Update, primarily due
16			to the increase in the LIL bipole forced outage rate assumption from 0.0114% to 5%." 1
17		c)	Please refer to PUB-NLH-252, Attachment 1 for a spreadsheet containing the calculation of
18			the equivalent loss of load hours.

¹ "Reliability and Resource Adequacy Study - 2022 Update," Newfoundland and Labrador Hydro, October 3, 2022, vol. I, p. 30/3–5.