

1 Q. Referencing NP-NLH-038, page 2, paragraph (g):

2 ***“Clearances under maximum ice and after load – The line is designed for***  
3 ***8.3 m ground clearance for maximum sag condition with maximum ice***  
4 ***after load condition or maximum temperature after load condition (85 deg***  
5 ***C).”***

6 Please explain how the 8.3 ground clearance was determined. Please provide  
7 clearances and separation values for all other line structures with their related  
8 load cases.

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11 A. Based on ground usage criteria “Over walkways or ground normally accessible only  
12 to pedestrians, snowmobiles, and personal-use all-terrain vehicles” as per CAN/CSA  
13 22.3 No. 1-10 Table 4, and 350 kV voltage, the base clearance is 6.0 m. Added to  
14 that amount are 1.4 m for snow cover, also as stipulated by CAN/CSA 22.3 No. 1-10,  
15 and an additional design buffer of 0.9 m to allow for inaccuracies in the ground  
16 profile at the exact structure location, or to enable structure movement freedom  
17 during construction, in the event that a structure needs to be moved for  
18 constructability reasons. This total is 8.3 m.

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20 The clearances and separation value for line structures were determined in  
21 accordance with the requirements of CAN/CSA 22.3 No. 1-10. Further examination  
22 of the detailed engineering design for the Labrador-Island Transmission Link is  
23 beyond the scope of this proceeding, as noted in Hydro's response to CA-NLH-132.