1	Q.	Reference: Study, page 9 - Transmission Planning Criteria TP-S-007 NLSO Standard
2		www.oasis.oati.com/woa/docs/NLSO/NLSOdocs/TP-S-
3		007_Transmission_Planning_Criteria_UPDATED_05112018.pdf
4		
5		According to NLSO Standard TP-S-007, thermal overload of transmission lines is calculated
6		for ambient temperature of 30 $^\circ$ C in summer, while low. Low temperature capacity is
7		calculated for ambient temperature of -15 $^\circ$ C in winter. Are these criteria based on historical
8		data? Please indicate frequency of occurrence and duration of such temperatures.
9		
10		
11	Α.	Overhead conductor ratings are calculated to ensure that the conductors do not sag below
12		the minimum ground clearance. Assumptions relating to ambient temperature are not
13		based on a statistical assessment of historic data. Rather, they are conservatively set in
14		consideration of temperature variations that may be experienced within a season or along
15		a transmission corridor. Newfoundland and Labrador Hydro has therefore specified that
16		ambient temperature assumptions of 30°C in summer and -15°C in winter are
17		representative for transmission planning purposes, irrespective of the frequency of
18		occurrence and duration of such temperatures.
19		
20		Operationally, Newfoundland and Labrador Hydro calculates overhead conductor ratings
21		for ambient temperature ranges from -30°C to 30°C in 5°C steps. These ratings are the basis
22		of system operating limits and allow for transmission system limits to be dynamically
23		determined during emergencies.