

1 Q. Reference: Teshmont Report - Section 5 – HVDC Reliability Data (Part 5.2) Data

2 Provided by Nalcor Energy (pg 21):

3 ***5.2. Data Provided by Nalcor Energy***

4 ***“The forced outage rates and availability of the HVDC systems are highly***  
5 ***dependent on their design, installation, and location (for example availability of a***  
6 ***spare converter transformers and/or submarine cables can significantly improve***  
7 ***the reliability of the overall system). Therefore, unless details of a specific system***  
8 ***are available, an accurate estimate of its forced outage rates and availability***  
9 ***cannot be calculated. For the purpose of this study, Teshmont is planning to use***  
10 ***the following values, which are based on the information that was provided to***  
11 ***Teshmont by Nalcor Energy.”***

12 Did Teshmont seek verification for any of the values provided by Nalcor Energy in  
13 section 14.6.1 of the Lower Churchill project performance requirements? If so, what  
14 verification/background/documents were provided and please provide the same. If  
15 Teshmont did not request any additional information, why not?

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18 A. Based on Teshmont’s 50 years of experience with HVdc transmission, as an owner  
19 engineer including HVdc technical specifications’ preparation, these requirements  
20 are considered typical for LCC HVdc systems. Therefore, Teshmont didn’t seek  
21 verification for any of the values provided by Nalcor.