

- 1   **Q:**   **Manitoba Hydro in a filing for its latest bipole project noted that "Wide front**  
2   **windstorm, fire, or tornado damage at Dorsey Station could cause an outage**  
3   **that shuts down the HVdc system for up to three years because of the time**  
4   **required to repair or replace equipment of such complexity" [Page 2-2 of**  
5   **Chapter II of the Bipole III Project filing, available on**  
6    [https://www.hydro.mb.ca/projects/bipoleIII/pdfs/eis/download/chapter2\\_need](https://www.hydro.mb.ca/projects/bipoleIII/pdfs/eis/download/chapter2_need_and_alternatives.pdf)  
7    [and alternatives.pdf](https://www.hydro.mb.ca/projects/bipoleIII/pdfs/eis/download/chapter2_need_and_alternatives.pdf) ]. **What is Liberty's opinion regarding the time required to**  
8    **repair the converter stations on LIL or ML in case of similar outages?**  
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11   **A.**    The converter stations at Muskrat Falls and Soldiers Pond, and the HVDC OHL and  
12    Electrode lines and DC Switching stations will have been designed according to  
13    environmental parameters (temperature, wind speeds etc) specified by Hydro. If the  
14    weather conditions are much worse than the parameters specified, it is possible that  
15    structural damage could occur to the LIL infrastructure. It is also possible that other  
16    infrastructure in the IIS and Labrador, such as ac substations, ac OHLs, and buildings  
17    associated with the operation of the grid would be severely damaged by such  
18    extreme weather conditions.  
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20    Very extreme weather conditions could potentially cause damage which would  
21    require the affected equipment, buildings and towers to be replaced with new  
22    equipment, buildings and towers. The time required to do so will depend on the  
23    actual damage and how quickly the same special equipment can be manufactured.  
24    While restoration times would likely be extreme, these are low probability  
25    circumstances.