

1    Q.    **Project C-17: Replace ABB Exciter Unit 2 – Cat Arm**

2            At page B9 of Kestrel Power Engineering’s Report (Appendix “B” to Volume II, Tab  
3            8), Kestrel Power Engineering states:

4                    “The only alternative to replacement of the excitation system is to  
5                    retain the existing system and to continue repairs as failures  
6                    occur. If the excitation system is to be retained, Hydro should  
7                    begin investigating suitable replacements for those components  
8                    that are already obsolete.”

9            Has Hydro considered the viability and cost of this alternative? If yes, has Hydro  
10            investigated the availability or suitable replacement components? If not, why not?

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13    A.    Hydro does not consider retaining the existing system and continuing repairs as  
14    failures remain possible. This is based on the following:

- 15            • The BBC exciter was installed in 1985 and is now 29 years old;
- 16            • The manufacturer, ABB, is not able to provide spare parts or technical
- 17            support;
- 18            • Hydro does not consider a refurbished exciter to be a reliable option; and
- 19            • Kestrel Power Engineering, an independent consultant, recommended
- 20            replacement of the exciter.