

1 Q. **References: Volume I, 2019 Capital Projects Over \$50,000 but less than \$200,000,**
2 **Project Title: Replace Teleprotection, page E13, lines 10 - 13.**

3 *“With the completion of TL 267, Hydro now has an optical fiber link*
4 *direct from BDE to SSD. This fiber link can now be used to provide*
5 *teleprotection for TL 202 and TL 206 utilizing much less expensive*
6 *Telecommunications Multiplexers called IMUX instead of replacing*
7 *the older PLC with newer PLC equipment.”*

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9 Does sharing the same fibre optic cable installed on the structures of TL267 to
10 provide teleprotection for all three transmission lines TL202, TL206 and TL267
11 expose the 230kV transmission system to the Avalon Peninsula to any new risks?
12 For example, could the failure of structures on TL267 compromise protection of the
13 other transmission lines?

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16 A. Sharing the same fibre optic cable installed on the structures of TL 267 to provide
17 teleprotection for all three transmission lines TL 202, TL 206, and TL 267 does not
18 expose the 230 kV transmission system to any new risks. Each of these lines, TL 202,
19 TL 206, and TL 267, utilize redundant communications links. In this case, the
20 microwave network provides path “A” communication, and the new TL 267 fiber
21 optic link provides path “B” communication. If one of these paths were to fail, the
22 other path would act as the backup path.