Q. Sunnyside Replacement Equipment: Please provide all Hydro's analyses from its 1 2 past January 2014 investigation that show why it was more cost effective or 3 otherwise preferable to install a 230kV transformer breaker for T1 transformer than it would be to install transfer tripping to the line breakers at the remote terminal 5 stations. 6 7 8 The benefit of this installation of a dedicated circuit breaker on T1 is that a fault on A. 9 transformer T1 does not require the electrical isolation of Bus B1. Therefore, failure 10 of transformer T1 would not result in an interruption to customers supplied through this station, as T4 would remain in service. Furthermore, with a dedicated 11 circuit breaker for transformer T1, Bus B1 would have to be isolated only in the 12 13 event of a transformer fault where the transformer circuit breaker fails to operate. 14 15 In the alternative, without a dedicated circuit breaker for transformer T1 at 16 Sunnyside Terminal Station, Bus B1 must be isolated in the event of a transformer 17 fault, and all customers supplied through that station would be interrupted. In the event of a transformer fault where a circuit breaker also fails to operate, transfer 18 tripping of line breakers at remote terminal stations would be required to clear the 19

fault, resulting in a broader system impact.

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