

1     **Q.     Asset Management**

2             Further to the response to PUB-NLH-100 using the 2009 to 2013 table provided as a  
3             baseline, state the anticipated expenditures for relay replacements, recloser control  
4             panels, and 230kV breaker controls for each year 2014, 2015, 2016, 2017, 2018, and  
5             2019.

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8     **A.**     The table below provides the anticipated expenditures for relay replacements,  
9             recloser control panels and 230 KV breaker controls. The relay replacements are for  
10            transmission, subtransmission and distribution systems.

	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>
Relay Replacements	\$151,902	\$1,024,300	\$546,400 <sup>1</sup>	\$631,000 <sup>2</sup>	\$631,000 <sup>3</sup>	\$0
Dist. Recloser Control Panels	\$111,300	\$84,400	\$0	\$0	\$0	\$0
230 kV Breaker Control	\$0	\$64,750	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$263,202</b>	<b>\$1,173,450</b>	<b>\$546,400</b>	<b>\$631,000</b>	<b>\$631,000</b>	<b>\$0</b>

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13            The Optimho relay for Primary Protection 1 on TL203 will be replaced in 2015 as  
14            part of Hydro's capital plan. Relay upgrades on TL201, TL217 and TL242 will be  
15            completed by 2016 during the construction of the Soldier's Pond Terminal Station  
16            for the Lower Churchill Project. Optimho relay replacements for TL202, TL206,

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<sup>1</sup> \$239,200 for the third year of the project to replace relays on TL201, TL217 and TL242 as part of the Soldier's Pond Terminal Station construction. \$307,200 for the second year of the project to replace the breaker failure protection in Bay D'Espoir and line protection on 130L and 133L at Stony Brook.

<sup>2</sup> To replace breaker failure protection and 138 kV and 66 kV line protections at various stations.

<sup>3</sup> See footnote 2.

**Island Interconnected System Supply Issues and Power Outages**

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- 1 TL207, TL237, TL218 and TL236 are not included in the present five-year capital plan
- 2 but will need to be budgeted for replacement after 2016.