

1 Q. **Reference: Upgrade Circuit Breakers, Volume I, Section C, Page C-27**

2 Does Hydro intend to complete any protection upgrades in conjunction with the
3 refurbishment and/or replacement of its circuit breakers? If so, please provide
4 details. If not, why not?

5

6

7 A. Protection upgrades are currently not included in the scope of projects which
8 involve the refurbishment and/or replacement of circuit breakers. Hydro completes
9 protection upgrades as separate capital projects. Examples of such projects in the
10 proposed 2015 Capital Plan include: Replace Optimho Relays on East Coast –
11 Various Sites, Upgrade Transformer Differential Protection – Grandy Brook,
12 Upgrade Terminal Station Protection and Control – Various Sites, and Replace Unit
13 Relay Protection – Upper Salmon. Depending on the nature of the protection
14 upgrade, outages required to complete the work and planning and scheduling
15 constraints, the field work associated with a protection upgrade may be completed
16 in conjunction with breaker refurbishments and/or replacements. Safety,
17 minimizing outage duration to customers, and the efficient use of time and
18 resources are the deciding factors in the work planning process.