

1 **Q. SUBSTATIONS**

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3 **PUB 7.0 (RE: p. 25 & 26 of 73) Distribution System Feeder Remote Control**  
4 **(\$1,114,000)**

5  
6 **PUB 7.2**

7 **Has NP quantified the benefit of replacing the 55 relays and the 40 reclosers that**  
8 **will have been replaced to the end of 2004? If so, please provide details.**  
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10 A. The Company has not completed an analysis that specifically quantifies the benefits of  
11 installing new relays and reclosers since 2002. In response to Request for Information  
12 CA-25(f) from Newfoundland Power's 2003 Capital Budget Application, the following  
13 information was provided:  
14

15 "The Company has not completed an analysis that specifically quantifies the reduction in  
16 operating cost of installing new relays and reclosers in 2002 or 2003. The installation of  
17 relays and reclosers will result in cost savings in a number of areas, including:  
18

- 19 • Providing hold-off protection remotely, therefore eliminating the need for  
20 personnel to travel to substations. The ability to ensure hold-off protection (i.e.  
21 ensure an energized circuit which faults and opens does not automatically close)  
22 is central to safe work on energized electrical circuits.  
23
- 24 • The automation of data gathering required in managing and maintaining the  
25 feeder system and other equipment.  
26
- 27 • The ability to configure relays and reclosers remotely will reduce switching time  
28 for outages and improve response time in sectionalizing feeders to provide  
29 clearance during restoration.  
30
- 31 • More accurate location of system fault will reduce the time it takes for personnel  
32 to identify the point of failure.  
33
- 34 • The ability to dispatch personnel in the event of a power outage prior to receiving  
35 a customer call along with the ability to identify the point of failure faster reduces  
36 the impact of the outage on revenue."  
37

38 In addition to the benefits cited above, the Company expects a reduction in future  
39 maintenance costs for reclosers, as the new units require less maintenance for reliable  
40 operation.