

1 Q. **System Reliability**

2 Provide examples of Transmission and Rural Operations (TRO) projects, such as the  
3 Wood Pole Line Management (WPLM) program, that TRO has conducted over the  
4 last few years where improving service reliability for customers was the primary  
5 goal.

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8 A. Some similar projects where improving service reliability for customers was the  
9 primary goal include:

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11 • 13491107 Replace Guy Wire TL-215 Doyles to Grand Bay – This involved  
12 a four year capital program carried out between 2011 and 2014 to  
13 replace guy wires on 371 structures on TL215. TL215 is a radial line  
14 feeding the Port Aux Basques area. Since the line is located in the  
15 Wreckhouse area, it experiences high winds and had historically  
16 experienced regular guy/guy grip failures.

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18 • 13490914 Upgrade Transmission Line TL212 - An engineering study as  
19 part of Newfoundland and Labrador Hydro's 2008 Capital Program  
20 determined that there were 25 locations along the aluminum tower  
21 sections of transmission line TL212 where low conductor clearances  
22 presented reliability and safety concerns. A guy wire inspection also  
23 found 47 structures that required guy wire replacement because of  
24 corrosion. This project involved replacing the corroded guys and  
25 installing mid-span structures to correct the clearance issues.

- 1                   • Upgrade Circuit Breakers (Various) - Hydro has been working to  
2                   maximize the service life of its circuit breakers. In recent years, Hydro  
3                   has been upgrading air blast circuit breakers, refurbishing operating  
4                   mechanisms on Sulphur Hexafluoride (SF<sub>6</sub>) circuit breakers, and  
5                   managing the phase out of PCB bushings associated with oil circuit  
6                   breakers.