

1 **Q. To what extent does Newfoundland Power provide automatic and/or remote**  
2 **controlled sectionalizing of its subtransmission circuits and distribution feeders? In**  
3 **the response include the extent the taps on the feeders are fused and the extent that**  
4 **the subtransmission and distribution feeder breakers are SCADA controlled.**

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6 **A. Distribution Feeders**

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8 Newfoundland Power solely utilizes reclosers for automatic and/or remote controlled  
9 sectionalizing of its distribution feeders. Currently, the Company has a total of 26  
10 automatic circuit reclosers on 17 of 306 feeders located downstream from their respective  
11 substations.<sup>1</sup>

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13 On April 28, 2014, the Board approved a 2014 Newfoundland Power Capital Budget  
14 Supplemental Application for electrical system improvements which included 14  
15 additional automated downline distribution feeder sectionalizing reclosers.<sup>2</sup>

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17 **Subtransmission Circuits<sup>3</sup>**

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19 Currently, a total of 4 of Newfoundland Power's 103 transmission lines include  
20 automatic sectionalizing capability.<sup>4</sup> These sectionalizing schemes are located at  
21 transmission line termination points that service small substations not equipped with  
22 transmission line breakers. When a fault is detected on one of these 4 transmission lines,  
23 airbreak switches will operate to sectionalize the line and allow a portion of the line to  
24 stay energized until repairs are made to the faulted section.

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26 **SCADA Control**

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28 SCADA control and monitoring has been implemented on 94 of 103 Newfoundland  
29 Power transmission lines and on 187 of 306 distribution feeders.<sup>5</sup>

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31 On September 13, 2013, the Board approved Newfoundland Power's 2014 Capital  
32 Budget Application which included work that the Company will undertake to automate  
33 12 distribution feeders.<sup>6</sup> On April 28, 2014, the Board approved a 2014 Newfoundland  
34 Power Capital Budget Supplemental Application for electrical system improvements that  
35 will provide for the automation of an additional 7 distribution feeders.<sup>2</sup>

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<sup>1</sup> See the response to Request for Information PUB-NP-078.

<sup>2</sup> See Order No. P.U. 14 (2014).

<sup>3</sup> Newfoundland Power refers to its transmission and sub-transmission lines as *transmission lines*. Newfoundland Power's transmission lines operate at a voltage between 33kV and 138kV and connect between substations.

<sup>4</sup> Transmission lines with automatic sectionalizing capabilities include 102L, 116L, 124L, and 410L.

<sup>5</sup> See the response to Request for Information PUB-NP-077. Transmission lines: 94 SCADA controlled / 103 total = 0.9126, or approximately 91%. Distribution feeders: 187 SCADA controlled / 306 total = 0.611, or approximately 61%.

<sup>6</sup> See Order No. P.U. 27 (2013).

1           **Distribution Feeder Taps**

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Please see the response to Request for Information PUB-NP-079 for information regarding fusing of Newfoundland Power's distribution feeder taps.