

1 **Q. Explain why not all transmission lines and distribution feeders are under**  
2 **SCADA/EMS monitoring and control. Please describe how these circuits are**  
3 **monitored and controlled in the absence of SCADA.**  
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5 A. An explanation why not all transmission lines are under system control and data  
6 acquisition (“SCADA”) system monitoring and control is provided in the response to  
7 Request for Information PUB-NP-245.  
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9 Newfoundland Power’s current SCADA system was installed in 1999. The previous  
10 SCADA system did not have the capacity to provide individual distribution feeder  
11 control. Also, prior to 1999 the technology used by the Company for distribution feeder  
12 reclosers and protective relaying for distribution feeder breakers was not capable of  
13 automation. Remotely controlling these distribution feeders required the replacement of  
14 either the associated recloser or the protective relaying.  
15

16 Following the installation of the current SCADA system, Newfoundland Power has  
17 implemented SCADA control and monitoring on 187 distribution feeders.<sup>1</sup> In 2014, an  
18 additional 19 distribution feeders are being remotely controlled.<sup>2</sup> In its 2015 Capital  
19 Budget Application an additional 25 distribution feeders have been identified for remote  
20 control. The remaining 75 distribution feeders will be automated over the period from  
21 2016 to 2019 as part of the Substation Refurbishment and Modernization capital project.<sup>3</sup>  
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23 In the absence of SCADA monitoring, the Company relies upon analog telemetry at  
24 upstream substation transformers and transmission lines to alarm when there is a  
25 significant loss of load which could be associated with the tripping of a downstream  
26 device. In some circumstances where the distribution feeder is not monitored by SCADA  
27 the Company relies on customers to call to report an outage.<sup>4</sup> Operation of the breakers  
28 and reclosers supplying transmission lines and distribution feeders that are not under  
29 SCADA control is completed manually in the field by qualified employees.

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<sup>1</sup> See the response to Request for Information PUB-NP-149.

<sup>2</sup> See the response to Request for Information PUB-NP-149.

<sup>3</sup> Newfoundland Power has 306 distribution feeders. 75 = 306 total – 187 currently remotely controlled – 19 to be remotely controlled in 2014 – 25 identified to be remotely controlled in the Company’s 2015 Capital Budget Application.

<sup>4</sup> Customers may also be required to contact the Company regarding outages caused by the operation of protection devices such as fuses or downstream reclosers on distribution feeders that have SCADA monitoring.