Q. Why do some of Newfoundland Power's transmission lines not have SCADA control? Which lines do not have SCADA control and what are the voltages?

A. Footnote 5 in the response to Request for Information PUB-NP-149 states that 94 of 103 transmission lines are under SCADA control. Of the 9 transmission lines without SCADA control, 6 transmission lines do not have breakers and therefore there is no device capable of being remotely controlled.[1]

Table 1 provides a summary of the 9 transmission lines without SCADA control.

Table 1
Transmission Lines ("TML") Without SCADA Control

TML	Voltage	Description
104L	66kV	104L is a transmission line in central Newfoundland that connects the Roycefield ("RFD") substation to the Beaver Brook antimony mine. The mine has been idled since January 2013. The 104L breaker located at RFD substation could be remote controlled if requested by the customer.
140L	66kV	140L is a radial transmission line that connects the Twillingate ("TWG") Substation to the Summerford Substation ("SUM"). The TWG and SUM substations are at the end of a radial transmission system originating from Gander ("GAN") and Cobbs Pond ("COB") substations. The transmission line breakers in the GAN and COB substations are under remote control. The 3 feeder reclosers at TWG Substation are under remote control and the 2 feeder reclosers at SUM will be remotely controlled as per the Company's 5-year plan to automate the remaining feeders not currently under remote control.
404L	66kV	404L connects Wheelers ("WHE") substation to transmission line 401L, connecting Gallant Street Substation to the Stephenville Gas Turbine Terminal Station. Wheelers Substation is also connected to Bottom Brook Terminal Station via 400L. The 400L breaker at Bottom Brook is under remote control via Hydro's EMS. The 404L breaker at Wheelers is normally open due to transformation limitations at Bottom Brook.

[1] With the exception of 404L, the remaining 8 transmission lines are radial in design with the upstream substation supplying the electricity having a remotely controlled transmission line breaker.

Table 1 (continued)
Transmission Lines ("TML") Without SCADA Control

TML	Voltage	Description
22L	66kV	22L connects Morris hydro plant to transmission line 20L, connecting Mobile substation to Cape Broyle substation. There are no breakers at either end of 22L therefore it is not capable of being remotely controlled.
21L	66kV	21L connects Horse Chops hydro plant to transmission line 20L connecting Mobile substation to Cape Broyle substation. There are no breakers at either end of 20L therefore it is not capable of being remotely controlled.
103L	66kV	103L connects Lewisporte Substation to transmission line 102L at Notre Dame Junction. The transmission line is approximately 14 kms in length and there are no breakers at either end of 103L, therefore it is not capable of being remotely controlled.
114L	66kV	114L is a radial transmission line connecting Summerford and Boyd's Cove substations to Gander Bay Substation. Gander Bay, Boyd's Cove and Summerford substations are at the end of a radial transmission system originating from Gander and Cobbs Pond substations. The breakers in Gander and Cobbs Pond substations are under remote control. There are no breakers on 114L, therefore it is not capable of being remotely controlled.
121L	138kV	121L connects Glovertown Substation to transmission line 124L at Alexander Bay. The transmission line is approximately 5 kms in length and there are no breakers at either end of 121L therefore it is not capable of being remotely controlled. The reclosers at Glovertown Substation are remotely controlled.
410L	66kV	410L is a radial transmission line connecting Berry Head and Abraham's Cove substations to Gallant Street Substation. Berry Head and Abraham's Cove substations are at the end of a radial transmission system originating from Gallant Street Substation. There are no breakers at either Berry Head or Abraham's Cove substations. The breaker at Gallant Street Substation and feeder reclosers at Abraham's Cove Substation are under remote control.