Q. ***Tab 4.2 Feeder Additions for the Load Growth***

How long has MOB-01 been in overload condition?

A. As indicated in *4.2 Feeder Additions for Load Growth*, at pages 2 and 3, there are two sections of distribution feeder MOB-01 where the peak load has exceeded the planning rating of the conductor.[1] The first section consists of #4/0 AASC conductor with a planning rating of 7.7 MVA. The second section consists of #4 CU conductor with a planning rating of 3.3 MVA.[2]

Both sections of the feeder initially exceeded their planning ratings in February 2013. They exceeded their planning ratings again during the winter months of 2014.

[1] The planning rating is theoretically 75% of the winter conductor ampacity and is based on ambient conditions of 0°C and 2ft/s wind speed. For additional explanation of Newfoundland Power conductor ratings, see the response to Request for Information PUB-NP-146 from the Investigation and Hearing into Supply Issues and Power Outages on the Island Interconnected System.

[2] The planning ratings for both 4/0 AASC and #4 CU conductor on a 12.5 kV line are shown in Appendix A to the report *4.2 Feeder Additions for Load Growth*.