

In reference to Schedule “B”, page 46 of 82 – Trunk Feeders Rebuild Distribution Lines, at a project cost of \$3,504,000, please provide the following:

Q. Any studies, reports and/or inspection reports in reference to each of these projects.

A. Extend GLV-02 to Charlottetown

The requirement here is not based on a formal study or an inspection. The community of Charlottetown is currently fed via an underwater cable. The cable is in excess of 35 years old and is approaching the end of its rated life. This project is aimed at replacing the cable with an aerial feed before a problem occurs. There is no simple option available to restore service to the area should a fault occur on the cable.

Rebuild sections of feeders in Port Aux Basques

This project has been initiated for two reasons:

- 1) Since 1997 the Port aux Basques area has been subjected to 758 unscheduled outages. Most of these outages are relatively minor in nature but overall have a substantial impact on operating costs.
- 2) There are currently 32 locations in the Port aux Basques area where buildings have been erected underneath distribution lines. This project addresses significant safety concerns.

Rebuild feeder NWB-01

Goobies to North Harbour – The NWB-01 feeder was built in 1962. Prior to 2000, reliability statistics were poor. In 2000 a section of the line was rebuilt resulting in an overall improvement in reliability statistics. At that time Aliant Telecom rebuilt a second section of line from Goobies to North Harbour. This project will see Newfoundland Power attach to this section of line. It will allow for the elimination of the old duplicate line and provide a newer more accessible line.

Rebuild SPR-03 – Springdale

This feeder supplies the Newfoundland Hydro territory of Kings Point and Little Bay. This line goes across country and has not had any significant upgrading in years. The remoteness of this line makes it difficult and expensive to locate problems. In 2001 there were outages of 60, 224, 380 and 965 minutes.

Relocate feeder WAL-05 – Georgetown Trailer Park.

This work is required to eliminate safety concerns with respect to trailers being parked (permanently) underneath the WAL-05 feeder.

Rebuild feeder (WES-02) – Lumsden to Deadmans Bay

This work is required to address reliability concerns (isolated district) based on frequency of trouble calls. This project is being done in conjunction with the relocation of the gas turbine from Salt Pond to Wesleyville.

Rebuild feeders KBR-08, KBR-11 & SLA-09

These rebuilds are based on the fact that all lines are approximately 40 years old and the sections slated to be rebuilt are located in rear lots where access is very difficult. Replacing poles or accessing transformers and secondary in emergency situations is difficult in these areas and can take many hours to repair. The proposed rebuilds will reduce the number of emergency repairs required.

Rebuild feeder SPO-02

This rebuild is not required based on the results of an inspection or formal study. This rebuild will construct a new 4/0 AASC feeder on a new pole line that was installed in 2001 for an Aliant fibre optic line through the towns of Lewin's Cove and Big Salmonier. The existing line is an old REA line that was built in the 1960s. Much of this feeder is inaccessible and has many spans longer than standard. These long spans have resulted in outages due to slapping and burned conductors.

Rebuild HCT-01

This rebuild is not required based on the results of an inspection or formal study. The project involves the relocation of 5 km of deteriorated distribution line to the Heart's Content Barrens highway. This distribution line was originally built in the 1950s as a transmission line between Victoria and Heart's Content and in later years was converted into a distribution line supplying power to communication towers at Dog Hills, located off the Heart's Content Barrens. Frequent pole, insulator, and conductor failures have resulted in repeated power interruptions for the customers served off this section of line. The existing 3-phase distribution line is situated amongst wooded areas for much of the line length and is also off the road right-of-way.

Newfoundland Telephone placed new poles in the 1990s for future joint use at Newfoundland Power's request. These poles were installed from the Town of Heart's Content to the intersection of Heart's Content Barrens (Route 80) and the access road to the one of the communication towers. These poles would form the basis for the new feeder.

Rebuild COL-01

This rebuild is not required based on the results of an inspection or formal study. For accessibility reasons, this project is necessary to relocate a 1.5 km section of old copper conductor main line that runs through a wooded area. Foot patrols are required when there is trouble resulting in extended power outages to customers served by this feeder.

The feeder will also be split into two feeders upon completion of the relocation. This will result in a reduction of the total line length of COL-01 and improved reliability. As part of this project, a 2.5 km section of COL-01 will also be reconductored. The entire main line conductor for COL-01 feeder will now have 4/0 conductor and should result in improved operational capability.