

Volume III, Distribution Lightning Arrestors, Appendix 2, Attachment B

Q. Has there been an improvement in reliability on feeders that have had lightning arrestors installed on all the distribution transformers? Please give details.

A. The reliability of a distribution feeder is affected by a number of factors, including the age and physical condition of the line and exposure to environmental conditions, of which lightning is but one such factor. The Company has not been able to quantify an improvement in the reliability of those feeders that have had lightning arrestors installed on all distribution transformers. However, in areas where lightning arrestors have been installed, Newfoundland Power has observed that transformer failures due to lightning activity have been significantly reduced.