



AltaLink Management Ltd.

Time Extension for Decommissioning and Removal
of Bonnie Glen 449S Substation and 838/837L

January 22, 2010

ALBERTA UTILITIES COMMISSION

Decision 2010-009: AltaLink Management Ltd.
Time Extension for Decommissioning and Removal of
Bonnie Glen 449S Substation and 838/837L
Application No. 1605640
Proceeding ID 401

January 22, 2010

Published by

Alberta Utilities Commission
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1 INTRODUCTION

1. On June 22, 2009 the Alberta Utilities Commission (the Commission) issued Decommission and Salvage Approval No. U2009-193 to approve an application by AltaLink Management Ltd. (AltaLink) to discontinue operation and to salvage the substation. Paragraph 2 of U2009-193 read as follows:

The Operator shall satisfy the Commission by December 31, 2009 that the Salvage has been completed as approved herein and as more particularly described in the Application. However, upon application by the Operator, the Commission may stipulate a later date for completing the Salvage, as it considers suitable under the circumstances.

2. On November 23, 2009 AltaLink filed application No. 1605640 pursuant to section 21(1) of the *Hydro and Electric Energy* (the Application) requesting approval by the Commission or an extension to the deadline to complete the Decommissioning and removal of Bonnie Glen 449S Substation from September 30, 2009 to February 28, 2011.

3. On December 3, 2009, AUC filed information requests to AltaLink. AltaLink filed the responses to the information requests on December 17, 2009.

2 DISCUSSION

4. Under Application No. 1604947 and approvals U2009-193, U2009-194 and U2009-195, AltaLink Management Ltd. has approval to decommission and remove the Bonnie Glen 449S substation and approximately 800 metres of 838L/837L. The approvals have an expiry date of December 31, 2009.

5. In order to properly protect 838L, which will run from Devon 14S substation to Buford 538S substation, upon the completion of the Bonnie Glenn salvage project, the new Leduc substation needs to be completed prior to the salvage of the Bonnie Glen substation.

6. Transmission lines (both 739L) beyond the Devon substation are relatively short. Buford 538S and Pigeon Lake 964S substation lack the protection required to adequately protect the long transmission line (of 838L, 837L and 805L). Decommissioning of Bonnie Glen 449S would result in a line length ratio exceeding four. When the ratio of a long line to an adjacent short line exceeds four (4) to one (1), protection co-ordination with step distance protection becomes impossible. In that case, protection of the shorter lines would require the implementation of a communication-aided scheme.

7. Decommissioning the Bonnie Glen substation prior to energization of the new Leduc 325S substation would result in changes to the line impedance ratio of adjacent lines. Specifically, removal of Bonnie Glen substation would result in a long transmission line consisting of 838L, 837L and 805L between the Devon 14S and Bigstone 86S substations.

8. It is anticipated that construction for the Bonnie Glen project can be completed by December 31, 2010. Therefore, AltaLink respectfully requests an extension of the permits and licences expiry date to February 28, 2011 to allow for any unforeseen delays.

3 FINDINGS

9. The Commission is satisfied that the extension is necessary given the unforeseen circumstances that required to the time extension for Decommissioning and removal of Bonnie Glen 449S substation and 838/837L.

4 DECISION

10. Pursuant to Clause 2 of Substation Decommission and Salvage Approval No. U2009-193, the Commission approves the Application and grants the approval set out in Appendix 1 - Time Extension Stipulation - Permit and Licence Number U2010-8 - January 22, 2010 for the completion of the Decommissioning and removal of Bonnie Glen 449S substation and 838L/837L (the Appendix will be distributed separately).

Dated in Calgary, Alberta on January 22, 2010.

ALBERTA UTILITIES COMMISSION

(original signed by)

Thomas McGee
Commissioner