



ENMAX Power Corporation

Request for Time Extension for
Upgrades to ENMAX No. 9 Substation

November 19, 2009

ALBERTA UTILITIES COMMISSION

Decision 2009-205: ENMAX Power Corporation

Request for Time Extension to Construct ENMAX No. 9 Substation

Application No. 1605462

Proceeding ID 320

November 19, 2009

Published by

Alberta Utilities Commission

Fifth Avenue Place, 4th Floor, 425 - 1 Street SW

Calgary, Alberta

T2P 3L8

Telephone: (403) 592-8845

Fax: (403) 592-4406

Web site: www.auc.ab.ca

1 INTRODUCTION

1. On May 27, 2008 the Alberta Utilities Commission (Commission) issued Order U2008-145 to approve an application by ENMAX Power Corporation (ENMAX) to alter and operate the No. 9 substation. Paragraph 4 of U2008-145 read as follows:

The completion date for the Alteration shall be on or before September 30, 2009. Upon application by the Operator, the Commission may stipulate a later date for completing the Substation.

2. On September 21, 2009 ENMAX filed Application No. 1605462 (the Application) pursuant to section 21(1) of the *Hydro and Electric Energy* requesting approval by the Commission or an extension to the deadline to complete the upgrading of ENMAX No. 9 substation from September 30, 2009 to December 30, 2009.

2 DISCUSSION

3. ENMAX originally planned to re-use an existing transformer at No.9 substation. However, a leak developed in the tank of that transformer and, ENMAX believes that the transformer should not be re-used.

4. ENMAX now plans to use a spare replacement transformer. This change requires modifications to the design and some of the construction aspects of the project because the two transformers are physically different. Project completion has been delayed for the following reasons:

- a. The location of power cable and control cabinet on the replacement transformer are different to that of original transformer. Thus, changes to the cable duct plan and physical changes to the existing cable duct system are required.
- b. The replacement unit has had its protection system standard (over-current and differential protection) revised to comply with the requirements of AESO Alberta Interconnection Protection Standard section 5.6 (Rev 0, Dec 1, 2004). This protection system requires a new panel.
- c. The replacement transformer has electronic accessories which require different wiring and control circuitry than the original transformer. The differences had to be tested and accounted for.

- d. The oil in the replacement transformer has to be reprocessed to reduce the moisture content prior to energization.
5. When the new transformer was tested at the factory, the noise level measured at 1 metre away from the replacement transformer was 74.2 dBA. The level is lower than that of a similar measurement from the existing transformer. Hence, ENMAX concluded that a new noise impact assessment (NIA) would not be unnecessary.
6. ENMAX states that the costs associated with this scope change would not be borne by this capital project but would be captured separately as a Capital Maintenance upgrade. The total additional cost to be charged to ENMAX Transmission Capital Maintenance is estimated to be \$139,021.
7. ENMAX has conducted an extensive public consultation process, including holding an Open House on January 28, 2008. ENMAX has personally contacted the owners and occupants of the businesses directly by phone adjacent to the substation and the substation access road. As of March 8, 2008 no objection to the substation upgrade has been filed.

3 COMMISSION FINDINGS

8. Due to the unforeseen circumstances requiring the replacement of the existing transformer, and that no party filed an objection to the substation upgrade proposal, the Commission considers that the extension is in the public interest.

4 DECISION

9. Pursuant to sections 21(1) of the Hydro and Electric Energy Act, the Commission approves the Application and grants the approval set out in the Appendix 1: Time Extension Stipulation - Permit and Licence No. U2009-347 - November 19, 2009 for the completion of the upgrading of ENMAX No. 9 substation (the Appendix will be distributed separately).

Dated in Calgary, Alberta on November 19, 2009.

ALBERTA UTILITIES COMMISSION

(original signed by)

N. Allen Maydonik Q.C.
Commissioner