

August 1, 2018

Decision 23665-D01-2018

ENMAX Power Corporation
141 – 50 Avenue S.E.
Calgary, Alta. T2G 4S7

Attention: Debbie Kovacs
Regulatory Manager, Facility Applications

**ENMAX No. 16 Substation Upgrade
Proceeding 23665
Application 23665-A001**

Letter of enquiry approval

1. ENMAX Power Corporation (ENMAX) filed a letter of enquiry with the Alberta Utilities Commission to replace the existing outdoor switchgear with new indoor switchgear at ENMAX No. 16 Substation, located at 5430 – 53 Avenue N.W. in the city of Calgary. The proposed work relates to facilities previously constructed and operating in accordance with approvals granted in Permit and Licence EN 98-13.¹ Approval is required for this work under Section 11 of the *Hydro and Electric Energy Regulation*.
2. The Commission issued information requests to ENMAX on June 29, 2018. ENMAX responded on July 6, 2018.
3. ENMAX proposed to replace the existing outdoor 13.8-kilovolt (kV) switchgear with new indoor 13.8-kV air-insulated arc-resistant switchgear and construct a new 27-metre by 14-metre building to house the indoor switchgear. The new building would be located in the southwestern section of the substation. The substation fence would be expanded by approximately 12 metres to the west to accommodate the new building. ENMAX proposed to undertake the project after it identified an arc flash safety hazard at the substation. Following arc flash studies, ENMAX concluded that there was a potential to experience an arc flash incident with energy exceeding the minimum rating of ENMAX's personal protective equipment. Additionally, the deteriorating condition of the outdoor switchgear equipment increased the probability of arc flash exposure for crews during maintenance activities. The new indoor switchgear would enhance safety for personnel and equipment and ensure continued system reliability.
4. ENMAX stated that it mailed project information packages to all landowners located within the first row of development surrounding the project site in May of 2018. ENMAX also stated that it had individually contacted other interested parties through email. ENMAX submitted that it received no concerns from stakeholders during the engagement process.

¹ Permit and Licence EN 98-13, Application 970516, January 5, 1998.

5. In response to an information request, ENMAX confirmed that, in its letter of enquiry, it had incorrectly stated that the substation fence would be expanded to the south rather than to the west. ENMAX also confirmed that the map in the project newsletter correctly depicted the new substation building and fenceline expansion locations but the accompanying description was incorrect. ENMAX submitted that it had since corrected the errors in the project newsletter and would be mailing an updated version to all stakeholders that had received the original project newsletter.

6. ENMAX did not anticipate any environmental impacts resulting from the project as the work would take place within the existing substation land boundary. ENMAX stated that all excavated material would be sampled prior to removal from the site and disposed of at an approved location. ENMAX further stated that should any suspect material be discovered during construction, an environmental consultant would be engaged.

7. ENMAX submitted that the proposed alteration would have no impact on noise levels at ENMAX No. 16 Substation and that any construction noise would be intermittent and comply with Rule 012: *Noise Control* and City of Calgary noise bylaws.

8. ENMAX planned to begin construction in March of 2019 and expected energization by December 31, 2020. ENMAX estimated that the project would cost \$7.8 million with an accuracy tolerance of + 30 to - 30 per cent and would be considered a capital project.

9. ENMAX has provided information respecting the need, nature, extent, land affected, land ownership and the timing of the work, in accordance with the requirements of Section 12 of the *Hydro and Electric Energy Regulation*. ENMAX has also stated that no adverse environmental impact will be caused by the proposed work.

10. Based upon the information provided, the Commission is satisfied that the proposal is of a minor nature, no other person is directly and adversely affected by the proposal and no adverse environmental impact will be caused by the proposed alterations, thereby meeting the requirements of Section 11 of the *Hydro and Electric Energy Regulation*.

11. The Commission approves the application. Permit and Licence 23665-D02-2018 is attached.

Alberta Utilities Commission

(original signed by)

JP Mousseau
Executive Director, Facilities Division
On behalf of the Alberta Utilities Commission

Attachment