



**Electric Transmission Checklist Application
to the
Alberta Utilities Commission**

**Laramide Battery Storage Connection Project
D.0850**

January 17, 2025

**AltaLink Management Ltd.
2611 – 3rd Avenue SE
Calgary, Alberta T2A 7W7**

INTRODUCTION

AltaLink Management Ltd., as General Partner of and on behalf of AltaLink, L.P. (AltaLink), is submitting this Electric Transmission Checklist Application (Application) to the Alberta Utilities Commission (AUC or Commission) under Sections 14, 15 and 21 of the *Hydro and Electric Energy Act (HEEA)*, Section 7.2.2 of AUC Rule 007, *Rules Respecting Applications for Power Plants, Substations, Transmission Lines, and Industrial System Designations* and for the approval to connect 2569059 Alberta Inc.'s (the Customer) Laramide Battery Storage Facility to the Alberta Interconnected Electric System (AIES) by adding two (2) 240 kV Breakers and associated equipment to AltaLink's Foothills 237S substation (the Project) in the High River area. AltaLink considers the Project to be minor in nature as the Project is located within the existing fenceline of Foothills 237S substation (Foothills 237S), with no adverse effects on any persons or the environment. AltaLink owns the entirety of the quarter section where the Foothills 237S is located.

Legal Counsel for the Application:

Elizabeth Coyle
Director, Law & Data Integrity
AltaLink, L.P
2611 – 3rd Avenue SE
Calgary, AB T2A 7W7
Tel: (403) 267-6158
elizabeth.coyle@altalink.ca

All communication regarding this Application should be directed to:

Nora Panahi, Regulatory Coordinator
403-267-5909
regulatory@altalink.ca

The Application has been reviewed by the undersigned on behalf of AltaLink.


David Hengst (Jan 17, 2025 16:13 MST)
David Hengst
Director, Customer & System Projects

AltaLink trusts the enclosed to be in order.

Yours truly,


Elizabeth Coyle (Jan 17, 2025 16:14 MST)
Elizabeth Coyle
Director, Law & Data Integrity

IDENTIFICATION

Company Name

AltaLink Management Ltd.

Name, position and contact information of applicant contact

All communication regarding this Application should be directed to:

Nora Panahi, Regulatory Coordinator
403-267-5909
regulatory@altalink.ca

PROJECT DETAILS

This application is for:

Substation Alteration Transmission Alteration

Project description, including the need, nature and extent of the project. Please also attach a project map if it assists in describing a project.

Project Description & Market Participant Information

AltaLink submits this Application to the Commission, pursuant to Sections 14, 15, 19 and 21 of the *HEEA* and, Section 7.2.2 of AUC Rule 007, Rules Respecting Applications for Power Plants, Substations, Transmission Lines, and Industrial System Designations, for approval to add two (2) 240 kV breakers and associated equipment at the Foothills 237S in the Foothills County area to connect the Customer's Laramide Facility to the AIES.

No fenceline expansion at Foothills 237S is required to complete the Project and AltaLink considers the scope of work to be minor in nature. AltaLink owns the entirety of the quarter section where the Foothills 237S is located.

On January 20, 2022, the Customer requested system access service for their facility in the Foothills County area. On March 14, 2024, the Customer submitted an application for the Laramide Battery Energy Storage Facility under proceeding 28906 (the Power Plant Application).¹ The Commission placed the Power Plant Application in abeyance so it could be considered with the Customer's proposed application to connect its Facility to the AIES (the Connection Application).² On January 17, 2025, the Customer filed its Connection Application with the Commission pursuant to Section 24.31(2) of the *Transmission Regulation*, Alta Reg 86/2007.³ AltaLink's Application is dependent on the approval of the Connection Application and both the Customer and AltaLink have agreed to coordinate their respective applications.

ISO Direction Assignment Letter & Functional Specification

On August 13, 2024, pursuant to Section 35(1)(a) of the *Electric Utilities Act (EUA)* and Section 504.5 of the ISO Rules, Service Proposals and Cost Estimating, the Alberta Electric System Operator (AESO)

¹ Exhibit 28906-X0011.01, AUC_LaramideBSF_FacilityApplication.

² Exhibit 28906-X0068, AUC letter - Ruling on process; Exhibit 28906-X0072, Laramide Battery Storage Facility Connection NID.

³ Exhibit 29788-X0002, AUC_Laramide_T-line_FA_20250117.

directed AltaLink to prepare a transmission facility proposal for the Project. A copy of this letter is provided in **Appendix A**.

On January 10, 2025, pursuant to Section 35(1)(a) of the *EUA*, the AESO issued AltaLink with a Notice to File a transmission facility proposal for the Project. A copy of the Notice to File is provided in **Appendix B**.

On January 16, 2025, the AESO submitted a Needs Identification Document (NID) to the Commission.⁴ The AESO and AltaLink have agreed to coordinate the submission of the NID and the Application and AltaLink requests that the Commission combine and consider the NID and the Application as contemplated in Section 15.4 of the *HEEA*.

The Project work detailed in this Application covers the scope contained in AESO's Functional Specification, dated September 12, 2024, Version 2. There are also three remedial action scheme (RAS) Functional Specifications:

- RAS 223 version 1 issued July 19, 2024;
- RAS 224 version 1 issued July 19, 2024; and
- RAS 225 version 1 issued July 19, 2024).

Copies of the Functional Specifications are provided in **Appendix C**.

Existing Facilities, Design Information & Switching & Protection Features

This Application is proposing to add the following equipment to the Foothills 237S:

- Two (2) 240 kV circuit breakers; and
- Other associated equipment.

After completion of the Project, the following equipment will exist at the Foothills 237S:

- Two (2) 240/138-kV, 240/320/400-megavolt-ampere transformers;
- Eight (8) 240-kV circuit breakers; and
- Four (4) 138-kV circuit breakers.

A copy of the existing permit and license is provided in **Appendix D** and a draft permit and licence is provided in **Appendix E**. A draft connection order is provided in **Appendix F**.

The AESO Functional Specifications, requires protection, SCADA, and telecommunication modifications to existing facilities. Equipment will be added and some existing equipment will be modified at the substations identified in the AESO Functional Specifications. These modifications will be used to protect the power system from overload conditions that could result from the addition of the Customer's Laramide Facility. If overload conditions exist, the new devices will protect the power system by reducing the Laramide Facility's output. AltaLink has identified modifications required at Foothills 237S, Janet 74S, and the customer's proposed Laramide 1172S substation in order to integrate the Project into the AIES, including installation of new protective relays. No fence expansion is required at either of the Foothills 237S or Janet 74S in order to accommodate the modifications.

Construction Information

⁴ Exhibit 28906-X0072, Laramide Battery Storage Facility Connection NID.

The proposed construction schedule shown below reflects the Customer’s current anticipated schedule.

Activity Phase	Key Tasks	Anticipated Schedule
Pre-Construction	Procurement of Material Detailed Engineering Anticipate receipt of permit and license Surveys Land Access	April 30, 2024 February 1, 2025 June 2, 2025 Not applicable Not applicable
Construction	Construction Start	February 03, 2026
Commissioning and In-Service date	Anticipated in-service date	June 1, 2026
Reclamation (if required)	Not applicable	Not applicable

To facilitate the proposed schedule, AltaLink will proceed with preconstruction activities such as engineering work, procurement of materials, preparation of construction contracts and tendering.

AltaLink proposes an in-service date of June 1, 2026, as the Customer is expected to complete its project by that date or on any later date the Commission approves. The Project schedule will be adjusted as required, to stay in alignment with the Customer’s final schedule.

Environmental Information & Historical Resources Act Approval

No significant environmental impacts are anticipated as a result of the Project. A copy of AltaLink’s Project Specific Environmental Protection Plan (EPP) and Environmental Requirements (PSER) are provided in **Appendix G**.

Project information was sent to Alberta Environment and Protected Areas (AEPA) as part of AltaLink’s Participant Involvement Program (PIP).

AltaLink received *Historical Resources Act* Approval on November 18, 2024, from the Ministry of Arts, Culture and Status of Women. A copy of this approval is provided in **Appendix H**.

Noise

Foothills 237S will continue to comply with permissible sound levels specified by AUC Rule 012: Noise Control as no new continuous noise sources will be added.

Participant Involvement Summary

AltaLink notified eleven stakeholders within 800 metres (m) of the existing substation fenceline and consulted with stakeholders within 100 m of the existing substation fenceline. AltaLink owns the entire quarter section in NW 8 19-27-W4M where the substation is located. No stakeholder identified concerns regarding the Project during consultation and AltaLink is not aware of any outstanding concerns from stakeholders at this time. A copy of AltaLink’s Project-specific Information Package is provided in **Appendix I**. A complete list of stakeholders for the Project is provided in **Appendix J**.

AltaLink determined that the Project is an Indigenous Consultation Category B, as it is located entirely within the existing substation on private land, and there are no Indigenous-owned lands or Crown lands within the Project notification area. As such, no Indigenous engagement took place.

Cost Estimate

The total cost for the Project is estimated to be \$9,244,425 CAD. The total costs include costs allocated to the Customer (\$7,710,263) and an AESO System cost (\$1,534,162). An AACE Class 3 cost estimate is provided in **Appendix K**.

Asset Transfer Agreement

AltaLink confirms the Asset Transfer Agreement was executed between AltaLink and the Customer on December 13, 2024. The Interim Operating Authority Services and Interconnecting Agreement will be agreed to and signed prior to transfer of the facilities described in the Asset Transfer Agreement.

The Interim Operating Authority Services and Interconnecting Agreement has not been signed. The agreement term will default to a period of six months maximum but can be extended if necessary. This will be agreed and executed between AltaLink and the Customer prior to energization.

Related permit and/or licence number:

20694-D02-2015

Electric facility identification number:

Foothills 237S Substation

Construction start date:

February 3, 2026

Construction completion date:

June 1, 2026

Proposed in-service date:

June 1, 2026

A draft permit and licence is attached:

Yes No

PARTICIPANT INVOLVEMENT REQUIREMENTS

Consultation and notification requirements have been met and there are no outstanding objections.

Yes No

TECHNICAL CONSIDERATIONS

The project will not change the equipment or structures approved by an existing permit and/or licence.

Yes No

The project will comply with Rule 012.

Yes No N/A

APPLICATION FOR SALVAGE

Salvage will be in accordance with applicable legislative requirements or other published standards and guidelines.

Yes No N/A

ENVIRONMENTAL REQUIREMENTS

There will be no significant environmental effects as a result of the project.

Yes No

Hazardous material or contaminant will be managed in accordance with applicable standards and guidelines.

Yes No N/A

OTHER CONSIDERATIONS

If the answer was no to any of the questions above, explain:

For this Project, AltaLink will add two (2) 240 kV circuit breakers at Foothills 237S. The Project will be completed within the existing fenceline, with no off-site impacts. There will be no adverse effects on any person or the environment because of the Project. However, AltaLink requires an amendment to its existing permit and license 20694-D02-2015 to include the addition of the two additional circuit breakers installed at the substation as part of this Project.

The project raises issues not addressed by the preceding questions.

Yes No

If yes, explain.

N/A