

Case Number: PU-23-361

Case Description: Roudup-Kummer Ridge 345-kV Trans-Dunn & McKenzie

Analyst Initials: VFS

Original Dollar Value of Investment in ND	-
Application Investment Amount in ND	74,000,000.00
<b>Total Investment</b>	<b><u>74,000,000.00</u></b>

**Note: Email from company or docketed case files must be attached as support for Total Investment Amount**

		PSC Accounting use only:	
Siting Application Fee	100,000.00	7800 - 301 - 420260	JE: <u>2400767</u>
Siting Admin Fee*	14,800.00	1400 - 510 - 464160	JE: <u>2400767</u>
<b>Total Fees Due</b>	<b><u>114,800.00</u></b>		

**Siting Admin Fee:**

\* For new or transfer siting applications only. Not amendments.

\*Per NDCC 49.22.1-21 & 49-22-22, \$200 for each \$1 million of original investment, not to exceed \$50,000

**Siting Application Fee:**

Per NDCC 49.22.1-21 & 49-22-22, For a certificate of site compatibility, \$500 for each \$1 M of investment in the facility. Not less than \$10k or more than \$100k.

Per NDCC 49.22.1-21 & 49-22-22, For a certificate of corridor compatibility, \$5,000 for each \$1 M of investment in the facility. Not less than \$10k or more than \$100k.

Per NDCC 49.22.1-21 & 49-22-22, For an amendment, amount to be determined by commission to cover expenses, discuss with PUD Director.

Excess Application Fee is refundable.

This form will be docketed in the case file after funds have been deposited by PSC Accounting.

## 1.0 INTRODUCTION

Pursuant to North Dakota Century Code (NDCC) Section 49-22-08.2, Basin Electric Power Cooperative (BEPC) submits this consolidated application for a North Dakota Public Service Commission (Commission) Certificate of Corridor Compatibility (Certificate) and Transmission Facility Route Permit (Route Permit) to construct the Roundup to Kummer Ridge 345-kilovolt (kV) Transmission Line Project (Project) in Dunn and McKenzie counties, North Dakota.

BEPC is an electric power generation and transmission cooperative, headquartered in Bismarck, North Dakota. BEPC generates and transmits wholesale electricity to 141-member rural electric cooperatives located in a 9-state service area, serving three million customers on their respective systems. McKenzie Electric Cooperative is the local electric cooperative that depends upon affordable and reliable power from BEPC to serve their customers' power needs.

The Southwest Power Pool Inc. (SPP) is the regional transmission organization that administers bulk electric transmission system reliability upgrades and generation interconnections. BEPC received a Notification to Construct Approved Reliability Network upgrades notice in July 2022 from SPP. BEPC is the designated transmission owner for the upgrade, which includes an approximately 32.5-mile-long transmission line from the existing Kummer Ridge Substation to the existing Roundup Substation (**Figure 1**).

The need for an additional 345-kV transmission line is due to load growth in the area. As electric load continues to develop in the region between Killdeer and Johnsons Corner, North Dakota, and the Fort Berthold Indian Reservation (FBIR), the existing transmission network is unable to maintain loading and voltage criteria during contingency events. The Project is required to meet reliability standards and projected electrical demands. The addition of this transmission line will allow continued reliable operation of the transmission system to accommodate additional load growth in the region. The Project would provide more reliable service to electric cooperative customers, as well as diversify power resources on the larger transmission system. The total cost of the Project is estimated to be \$74 million. Project maps and figures are included in **Appendix A**.

The Kummer Ridge substation is currently served by a single radial 345-kV circuit (Patent Gate to Kummer Ridge). An outage or loss of this circuit would result in large through-flow on the existing Western Area Power Administration 230-kV system and other facilities, which creates severe voltage constraints on the local electric system. Loss of the circuit would likely result in outages or load shedding. The addition of the Project circuit increases the load serving capability and provides critical transmission redundancy.

### 1.1 Compliance with the Energy Conversion and Transmission Facility Siting Act

The North Dakota Energy Conversion and Transmission Facility Siting Act requires an application for a Certificate to meet the criteria set forth in NDCC Section 49-22 and the North Dakota Administrative Code (NDAC) Article 69-06. The siting of a transmission facility is to be made in an orderly manner compatible with environmental preservation and the efficient use of resources (NDCC Section 49-22-02).

BEPC will comply with the exclusion and avoidance areas and selection and policy criteria set forth in NDAC Section 69-06-08-02 in the design of the Project and has provided information on such areas in this application. In addition, sufficient Project design and technical information have been provided for a thorough evaluation. **Table 1** outlines the requirements to fulfill a Certificate and Route Permit application and the application section that addresses the requirement.