

**STATE OF MINNESOTA
BEFORE THE MINNESOTA PUBLIC UTILITIES COMMISSION**

Katie J. Sieben
Valerie Means
Matthew Schuerger
Joseph K. Sullivan
John A. Tuma

Chair
Commissioner
Commissioner
Commissioner
Commissioner

In the Matter of the Application of
Minnesota Power for a Certificate of Need
for the HVDC Modernization Project

MPUC Docket No. E015/CN-22-607

SUMMARY OF CERTIFICATE OF NEED FILING

Pursuant to Minn. Stat. § 216B.243, Minnesota Power has submitted an application for a Certificate of Need for the High-Voltage Direct-Current (“HVDC”) transmission line terminals modernization project (the “HVDC Modernization Project” or the “Project”). The Project includes the construction of modernized HVDC terminals, and transmission facilities necessary for their operation, in St. Louis County, Minnesota. Pursuant to Minn. R. 7829.2500, subp. 2, Minnesota Power provides this summary of its Certificate of Need filing.

The Project involves modernizing and upgrading the two HVDC terminals for Minnesota Power’s 465-mile-long Square Butte HVDC Line and interconnecting the upgraded HVDC terminals to the existing alternating-current (“AC”) transmission system, which are reaching the end of their useful life. These HVDC terminals are currently located near the Arrowhead Substation in Hermantown, Minnesota and the Center Substation in Center, North Dakota. The Project (both the Minnesota and North Dakota portions) is anticipated to cost approximately \$800 million to \$940 million.

To modernize the HVDC terminals and implement the latest technology, new buildings and electrical infrastructure need to be constructed on a new site near the existing HVDC terminals. In Minnesota, to connect the new HVDC terminal to the existing AC system, the Project would require the construction of a new St. Louis County 345 kilovolt (“kV”)/230 kV substation located less than one mile west of the current Arrowhead Substation. The new HVDC terminal would be connected to the new St. Louis County Substation by less than one mile of 345 kV large high-voltage transmission line (“LHVTL”) and the St. Louis County Substation would be connected to the existing Arrowhead Substation by two parallel 230 kV LHVTLs less than one mile in length. Additionally, a short portion of the existing ± 250 kV HVDC Line in Minnesota will need to be reconfigured to terminate at the new HVDC terminal.

The Application is available on the Minnesota Public Utilities Commission’s e-Dockets webpage under the docket number listed above. It is also available on Minnesota Power’s website: <https://www.mnpower.com/Company/Transmission>.

CERTIFICATE OF SERVICE

IN THE MATTER OF THE APPLICATION OF
MINNESOTA POWER FOR A CERTIFICATE OF
NEED FOR THE HVDC MODERNIZATION
PROJECT

MPUC DOCKET No. E015/CN-22-607

Theresa Senart certifies that on the 1st day of June, 2023, on behalf of Minnesota Power, she efiled a true and correct copy of the **Certificate of Need Filing Summary** by posting the same on [eDockets](#). Said document is also served via U.S. Mail or email as designated on the Official Service List on file with the Minnesota Public Utilities Commission in the above-referenced docket. Said document is also served via U.S. Mail or email as designated on the General Service List for Minnesota Power on file with the Minnesota Public Utilities Commission as required by Minnesota Rule 7829.2500, subpart 3. Said document is also served via U.S. Mail or email as required by Minnesota Rule 7829.2500, subpart 3 to those persons who were parties to Minnesota Power's last general rate case (Docket No. E015/GR-21-335) as indicated on the attached list.

/s/ Theresa Senart

Theresa Senart

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