# Appendix B Scoping Decision



In the Matter of the Application of Great River Energy for a Route Permit for the Pilot Knob to Burnsville 115 kV Rebuild and Upgrade Project in Dakota County, Minnesota

SCOPING DECISION DOCKET NO. ET2/TL-23-410

The above matter has come before the Commissioner of the Department of Commerce (Department) for a decision on the scope of the environmental assessment (EA) to be prepared for the Pilot Knob to Burnsville 115 kV Rebuild and Upgrade Project (Project) proposed by Great River Energy in Dakota County, Minnesota.

# **Background**

On November 17, 2023, Great River Energy (Applicant or GRE) submitted a high voltage transmission line (HVTL) Route Permit Application (RPA) to the Minnesota Public Utilities Commission (Commission) for the Pilot Knob to Burnsville 115 kV Transmission Line Rebuild and Upgrade Project (Project). The RPA was submitted under the alternative review process (Minnesota Statute 216E.04; Minnesota Rule 7850.2800-3900).

On January 17, 2024, the Commission accepted the RPA as complete and authorized Department of Commerce, Energy Environmental Review and Analysis (EERA) staff to prepare an environmental assessment (EA) for the project.<sup>2</sup>

The Project will rebuild and upgrade three portions of approximately 8.75 miles of an existing 69 kilovolt (kV) line with 115 kV high voltage transmission line. The three sections of the HVTL rebuild and upgrade include the following: 1) between the existing Pilot Knob and Deerwood substations, 2) between the existing Deerwood and River Hills substations, and 3) between the existing River Hills and Burnsville substations. The existing Burnsville Substation will be upgraded and modified as part of the Project. The Project is located in the cities of Eagan, Burnsville, and Apple Valley, Dakota County, Minnesota (**Figure 1-1**).

The Applicant indicates that the proposed Project is needed to maintain transmission system reliability, prepare for future load growth, and preserve the existing looping system allowing the Deerwood and River Hill substations to serve customers in both directions along the transmission line. The Deerwood and River Hill substations provide service to Dakota Electric Association's electric cooperative members. The Applicant states that the new equipment will meet modern design standards and provide the ability

<sup>&</sup>lt;sup>1</sup> Great River Energy. Route Permit Application for the Pilot Knob to Burnsville 115 kV Transmission Line Rebuild and Upgrade Project. November 17, 2023, eDockets Numbers – Filing Letter 202311-200563-01, Application 202311-200563-02, Figures 202311-200563-03, 202311-200563-04, 202311-200563-05, 202311-200563-06, Appendix A 202311-200563-07, 202311-200563-08, Appendix B and C 202311-200563-09, Appendix D 202311-200564-01, 202311-200564-02, 202311-200564-03, Appendices E-I 202311-200564-04 [hereinafter Application or RPA].

<sup>&</sup>lt;sup>2</sup> Commission. Order. January 17, 2024, eDocket 20241-202249-01

to operate the line at a higher voltage.3

# **Scoping Process Summary**

Commission and EERA staff jointly held a remote-access public information and EA scoping meeting on February 20, 2024, and a joint in-person public information and EA scoping meeting at the Diamondhead Education Center in Burnsville on February 21, 2024. The purpose of the meetings was to provide information to the public about the proposed Project, to answer questions, and to allow the public an opportunity to identify impacts and alternatives that should be considered during preparation of the EA. A court reporter was present at the meetings to document oral statements.

Five people attended the remote meeting, and four persons attended the in-person public information and scoping meeting. There were three public comments received during the remote virtual meeting, and no comments received during the in-person meeting.<sup>4,5</sup> During the comment period, which closed on March 6, 2024, five written public comments were received – two from the general public and three from state agencies.<sup>6,7</sup> Comments received ranged from statements of support for (or opposition to) the proposed project, to specific concerns or perceived impacts.

On March 27, 2024, EERA staff filed its *EA Scoping Summary* with the Commission.<sup>8</sup> In that filing, staff recommended that GRE's preferred route be the sole routing alternative included in the scoping decision for the EA. EERA staff did not recommend any other route alternatives or alignment modifications for inclusion in the EA scoping decision.

The Commission considered EERA's *EA Scoping Summary* for the Project on its April 11, 2024, consent agenda. On April 16, 2024, the Commission concurred with EERA and authorized the Applicant's proposed route as the sole routing alternative for analysis in the EA. 10

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**HAVING REVIEWED THE MATTER**, consulted with EERA staff, and in accordance with Minnesota Rule 7850.3700, I hereby make the following scoping decision:

#### MATTERS TO BE ADDRESSED

The issues outlined below will be analyzed in the EA for the proposed Pilot Knob to Burnsville Rebuild and Upgrade Project. The EA will describe the Project and the human and environmental resources in the project area. The EA will also provide information on the potential impacts of the proposed project as they relate to the topics outlined in this scoping decision, including possible mitigation for identified

<sup>&</sup>lt;sup>3</sup> Application, Section 1.5

<sup>&</sup>lt;sup>4</sup> EERA. Virtual Meeting – Oral Public Comments. March 4, 2024. eDocket 20243-204045-02

<sup>&</sup>lt;sup>5</sup> EERA. In-person Meeting – Oral Public Comments. March 4, 2024. eDocket <u>20243-204045-01</u>

<sup>&</sup>lt;sup>6</sup> EERA. Written Comment, Shannon Marcus, February 21 and 22, 2024. eDocket <u>20243-204565-01</u>

<sup>&</sup>lt;sup>7</sup> EERA. Written Comments, Agencies. March 6, 2024. eDocket 20243-204563-01

<sup>&</sup>lt;sup>8</sup> ERRA. Environmental Assessment Scoping Summary. March 27, 2024. eDocket No. <u>20243-204675-01</u>.

<sup>&</sup>lt;sup>9</sup> Commission. Proposed Consent Items. April 11, 2024. eDocket No. <u>20244-205259-05</u>

<sup>&</sup>lt;sup>10</sup> Commission. Order. April 16, 2024. eDocket No. <u>20244-205449-01</u>

impacts, identification of irretrievable commitment of resources, and permits from other government entities that may be required for construction of the project.

#### I. GENERAL DESCRIPTION OF THE PROJECT

- A. Project Description
- B. Project Purpose
- C. Route Description
- D. Project Costs

#### II. REGULATORY FRAMEWORK

- A. Certificate of Need
- B. High Voltage Transmission Line Route Permit
- C. Environmental Review Process
- D. Other Permits and Approvals

#### III. ENGINEERING AND DESIGN

- A. Transmission Line Structures
- B. Transmission Line Conductors
  - Safety features in case of downed lines

#### IV. CONSTRUCTION

- A. Right-of-Way Acquisition
- B. Construction
- C. Restoration
- D. Damage Compensation
- E. Operation and Maintenance

#### V. AFFECTED ENVIRONMENT, POTENTIAL IMPACTS, AND MITIGATIVE MEASURES

The EA will include a discussion of the human and environmental resources potentially impacted by the proposed project. Potential impacts, both positive and negative, of the project will be described. Based on the impacts identified, the EA will describe mitigation measures that could reasonably be implemented to reduce or eliminate the identified impacts. The EA will describe any unavoidable impacts resulting from implementation of the proposed project.

Data and analyses in the EA will be commensurate with the importance of potential impacts and the relevance of the information to consideration of the need for mitigation measures. <sup>11</sup> EERA staff will consider the relationship between the cost of data and analyses and the relevance and importance of the information in determining the level of detail of information to be prepared for the EA. Less important material may be summarized, consolidated, or simply referenced.

If relevant information cannot be obtained within timelines prescribed by statute and rule, or if the costs of obtaining such information is excessive, or the means to obtain it is not known,

<sup>&</sup>lt;sup>11</sup> Minnesota Rule 4410.2300.

EERA staff will include in the EA a statement that such information is incomplete or unavailable and the relevance of the information in evaluating potential impacts.<sup>12</sup>

- A. Description of the Environmental Setting
- B. Human Settlements
  - 1. Noise
  - 2. Aesthetics
  - 3. Displacement
  - 4. Property Values
  - 5. Zoning and Land Use Compatibility
  - 6. Socioeconomics / Environmental Justice
  - 7. Public Services
    - a) Roads and Highways
      - Transmission structures and traffic line of sight
      - MnDOT coordination, Utility Accommodation Policy
    - b) Utilities
    - c) Emergency Services
  - 8. Electronic Interference
    - a) Radio
    - b) Television
    - c) Wireless Phone / Internet Services
- C. Public Health and Safety
  - 1. Electric and Magnetic Fields
  - 2. Implantable Medical Devices
  - 3. Stray Voltage
  - 4. Induced Voltage
  - 5. Air Quality
  - 6. Greenhouse Gases and Climate Change
- D. Land Based Economies
  - 1. Agriculture
  - 2. Forestry
  - 3. Mining
  - 4. Recreation and Tourism
- E. Archaeological and Historic Resources
- F. Natural Environment
  - 1. Water Resources
    - a) Surface Waters
    - b) Groundwater
    - c) Wetlands
  - 2. Soils
    - Use of non-chloride dust suppressants
  - 3. Flora
    - Vegetation Management
    - Tree Removal

<sup>&</sup>lt;sup>12</sup> Minnesota Rule 4410.2500.

- 4. Fauna
  - Use of wildlife-friendly erosion control coverings
  - Facility Lighting
- G. Threatened / Endangered / Rare and Unique Natural Resources
  - Blanding's Turtle
- H. Electric System Reliability
- I. Operation and Maintenance Costs that are Design Dependent
- J. Adverse Impacts that Cannot be Avoided
- K. Irreversible and Irretrievable Commitments of Resources

# VI. ROUTES AND ALIGNMENTS TO BE EVALUATED IN THE ENVIRONMENTAL ASSESSMENT

The EA will evaluate the applicant's proposed route (attached **Figure 1-1**).

#### VII. IDENTIFICATION OF PERMITS

The EA will include a list and description of permits from other government entities that may be required for the proposed project.

#### ISSUES OUTSIDE THE SCOPE OF THE ENVIRONMENTAL ASSESSMENT

The EA will not consider the following:

- A. Any route, route segment, or alignment alternative not specifically identified for study in this scoping decision.
- B. Any system alternative (an alternative to the proposed transmission line project).
- C. Potential impacts of specific energy sources.
- D. The manner in which landowners are paid for transmission line right-of-way easements.

#### **SCHEDULE**

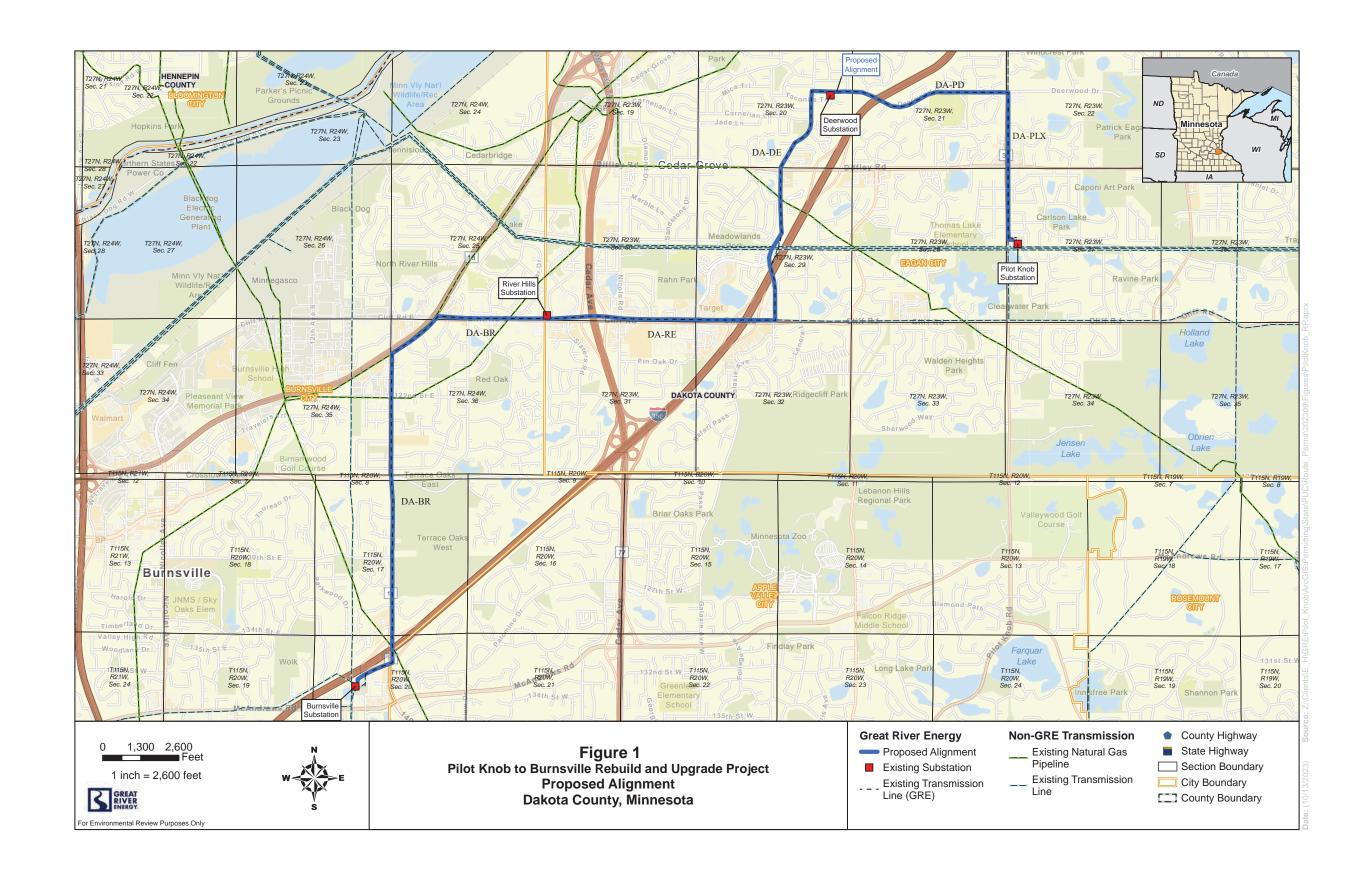
The EA is anticipated to be completed on or before August 2, 2024. Public hearings will be held in the project area after issuance of the EA and are anticipated to occur in August 2024.

Signed this 30th day of April, 2024.

STATE OF MINNESOTA
DEPARTMENT OF COMMERCE

Michelle Gransee, Deputy Commissioner

muchelle Joy Gransee



# **CERTIFICATE OF SERVICE**

I, Sharon Ferguson, hereby certify that I have this day, served copies of the following document on the attached list of persons by electronic filing, certified mail, e-mail, or by depositing a true and correct copy thereof properly enveloped with postage paid in the United States Mail at St. Paul, Minnesota.

Minnesota Department of Commerce Environmental Assessment Scoping Decision

Docket No. ET2/TL-23-410

Dated this 1st day of May 2024

/s/Sharon Ferguson

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Brock	FLUEGGE	brock@lakesideins.com	Lakeside Insurance Brokers	11979 County Rd 11 Ste 270 Burnsville, MN 55337	Electronic Service	No	OFF_SL_23-410_Official CC Service List
Kellie	LeClair	scokejolo@msn.com		4100 Blackhawk Road  Eagan, MN 55122	Electronic Service	No	OFF_SL_23-410_Official CC Service List
James	Mortenson	james.mortenson@state.m n.us	Office of Administrative Hearings	PO BOX 64620 St. Paul, MN 55164-0620	Electronic Service	Yes	OFF_SL_23-410_Official CC Service List
Janet	Shaddix Elling	jshaddix@janetshaddix.co m	Shaddix And Associates	7400 Lyndale Ave S Ste 190 Richfield, MN 55423	Electronic Service	Yes	OFF_SL_23-410_Official CC Service List
Sarah	Turton	sturton@agreerealty.com		Agree Stores, LLC (Bldg. MN-301629) 32301 Woodward Ave Royal Oak, MI 48073	Electronic Service	No	OFF_SL_23-410_Official CC Service List
Kathy	Zeroth	kathyzerrn@gmail.com		4134 Signal Pointe  Eagan, MN 55122	Electronic Service	No	OFF_SL_23-410_Official CC Service List

# Appendix C Draft Route Permit

#### STATE OF MINNESOTA PUBLIC UTILITIES COMMISSION

#### **ROUTE PERMIT FOR**

# [PROJECT NAME] PILOT KNOB TO BURNSVILLE 115 KV REBUILD AND UPGRADE PROJECT

#### A HIGH-VOLTAGE TRANSMISSION LINE AND ASSOCIATED FACILITIES

IN <del>[County]</del>dakota

ISSUED TO

[PERMITTEE] GREAT RIVER ENERGY

PUC DOCKET NO. [Docket Number] ET2/TL-23-410

In accordance with the requirements of Minnesota Statutes Chapter 216E and Minnesota Rules Chapter 7850 this route permit is hereby issued to:

# [Permittee] Great River Energy

[Permittee] Great River Energy is authorized by this route permit to construct and operate the Pilot Knob to Burnsville 115 kV Rebuild and Upgrade Project [Provide a description of the project authorized by the Minnesota Public Utilities Commission].

The high-voltage transmission line and associated facilities shall be built within the route identified in this route permit and as portrayed on the route maps and in compliance with the conditions specified in this route permit.

Approved and adopted this day of [Month, Year
BY ORDER OF THE COMMISSION
Will Seuffert,
Executive Secretary

To request this document in another format such as large print or audio, call 651-296-0406 or 800-657-3782 (voice). Persons with a hearing or speech impairment may call using their preferred Telecommunications Relay Service or email consumer.puc@state.mn.us for assistance.

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# **ATTACHMENTS**

Attachment 1 – Complaint Handling Procedures for Permitted Energy Facilities

Attachment 2 – Compliance Filing Procedures for Permitted Energy Facilities

Attachment 3 – Route Permit Maps



#### 1 ROUTE PERMIT

The Minnesota Public Utilities Commission (Commission) hereby issues this route permit to <a href="Permittee Name">[Permittee Name]</a> Great River Energy (Permittee) pursuant to Minnesota Statutes Chapter 216E and Minnesota Rules Chapter 7850. This route permit authorizes the Permittee to construct and operate a [Provide a description of the project as authorized by the Commission], and as identified in the attached route maps, hereby incorporated into this document (Project Name] Pilot Knob to Burnsville 115 kV Rebuild and Upgrade Project, henceforth known as Transmission Facility).

# 1.1 Pre-emption

Pursuant to Minn. Stat. § 216E.10, this route permit shall be the sole route approval required for construction of the transmission facilities and this route permit shall supersede and preempt all zoning, building, or land use rules, regulations, or ordinances promulgated by regional, county, local and special purpose governments.

#### 2 TRANSMISSION FACILITY DESCRIPTION

The project includes the following segments of existing 69 kV transmission to be rebuilt and upgraded:

- Approximately 2.1 miles between the existing Pilot Knob and Deerwood substations;
- Approximately 3.2 miles between the existing Deerwood and River Hills substations;
   and
- Approximately 3.4 miles between the existing River Hills and Burnsville substations.

Additionally, the existing Burnsville Substation would be upgraded and modified as part of the project. [Provide a description of the Transmission Facility as authorized by the Commission]

The Transmission Facility is located in the following:

County	Township Name	Township	Range	Section
		<u>27N</u>	<u>23W</u>	20, 21, 22, 27,
	City of Eagan			<u>28, 29, 30, 31,</u>
<u>Dakota</u>				<u>32</u>
	City of Burnsville	<u>27N</u>	<u>24W</u>	<u>25, 35, 36</u>
	City of Burrisville	<u>115N</u>	<u>20W</u>	<u>17, 20</u>

SAMPLE-DRAFT PERMIT [Project Name and PUC Docket No.] Pilot Knob to Burnsville 115 kV Rebuild and Upgrade Project, Docket No. ET2/TL-23-410

City of Apple	<u>115N</u>	<u>20W</u>	<u>20</u>
<u>Valley</u>			

#### 2.1 Structures

The majority of the new 115-kV transmission line will consist of single circuit, horizontal post, or braced post direct-imbedded monopole steel structures spaced approximately 300 to 400 feet apart. Transmission structures will typically range in height from 65 to 100 feet above ground. The diameter of the direct-embedded steel structures at ground level would be between 22 and 40 inches.

Laminated wood structures or steel structures on concrete foundations may be needed for switches and angled structures. Multi-pole (e.g., 3-pole deadend) and/or H-frame structures are designed in a horizontal configuration, which maintains the transmission line conductors parallel to the ground. Horizontal configuration is sometimes desirable where the proposed transmission line crosses under other existing high voltage transmission lines.

In some cases where overhead clearances require the use of H-frame structures, it may be necessary to also bury the optical ground shield/communication wire.

A deadend structure is used to change direction and / or wire tension on a transmission line. A typical deadend structure with bundled conductor has a height of approximately 75 feet, a diameter of approximately 70 inches, and a concrete foundation diameter of approximately 82 inches. [Provide a detailed description of the structures authorized by the Commission]

#### 2.2 Conductors

Single circuit structures would have three phases of bundled conductor wires and one shield wire. It is anticipated that the phase wires would be 795 thousand circular mil aluminum-clad steel supported (795 ACSS) or a conductor with similar capacity. [Provide a detailed description of the conductors authorized by the Commission]

The table below details specifics on the various structure and conductor types as presented in the route permit application.

Line Type	Conductor	Structure		Foundation	Height	Span
Line Type		Type	Material	Foundation	Height	Spair
<u>115 kV</u>	795 ACSS	<u>Monopole</u>	Wood,	<u>Direct</u>	<u>65 – 100</u>	<u>300 – 400</u>
		<u>with</u>	steel, or	embed or	<u>feet</u>	<u>feet</u>
		horizontal	ductile iron	<u>concrete</u>		

SAMPLE DRAFT PERMIT [Project Name and PUC Docket No.] Pilot Knob to Burnsville 115 kV Rebuild and Upgrade Project, Docket No. ET2/TL-23-410

	post or braced post				
ŀ	H-Frame	Wood, steel, or ductile iron	Direct embed or concrete	65 – 100 feet	<u>350 - 800</u>
]	Three-pole	Wood, steel, or ductile iron	Direct embed or concrete	65 – 100 feet	<u>350 – 800</u>

#### 2.1 Substations and Associated Facilities

<u>Upgrades at Burnsville Substation include shifting the upgraded and rebuilt 69 kV transmission to the west side of Burnsville Substation, removal of existing bus work, and installation of new bus work, new breakers, and new control equipment.</u>

[Provide a detailed description of the associated facilities and substations as authorized by the Commission]

#### 3 DESIGNATED ROUTE

The route designated by the Commission is described below and shown on the route maps attached to this route permit (Designated Route). The Designated Route is generally described as follows:

- 1. The entire 5.4-acre parcel where the Pilot Knob Substation is located.
- 2. A 400-foot-wide route for approximately 1 mile along Pilot Knob Road to the intersection with Deerwood Drive.
- 3. A 200-foot-wide route along Deerwood Drive and Blackhawk Road to the I-35E crossing.
- 4. The entire 2-acre parcel where Deerwood Substation is located.
- 5. An approximately 500-foot-wide route (at its widest point) along the proposed 1,250-foot minor reroute north of Blackhawk Road at the I-35E crossing.
- 6. A 200-foot-wide route for approximately 1,800 feet along the Blackhawk Road to the intersection at Cliff Road.
- 7. A 400-foot-wide route for approximately 2.2 miles along Cliff Road to the intersection at State Highway 13.
- 8. The entire 0.5-acre parcel where the River Hills Substation is located.
- 9. A 500-foot-wide route for approximately 2,000 feet along State Highway 13.
- 10. A 400-foot-wide route for 2 miles along County Highway 11.

SAMPLE-DRAFT PERMIT [Project Name and PUC Docket No.] Pilot Knob to Burnsville 115 kV Rebuild and Upgrade Project, Docket No. ET2/TL-23-410

- 11. A 200-foot-wide route for approximately 1,000 feet along I-35E to the Burnsville Substation.
- 1.12. The entire 5.4-acre parcel where the Burnsville Substation is located to accommodate the substation upgrades and different potential connection points into the substation. Provide detailed description of the authorized route including the route widths and any other specifics relevant to each segment. Also include a reference to the relevant route map to be attached to the route permit.

The Designed Route includes an anticipated alignment and a right-of-way. The right-of-way is the physical land needed for the safe operation of the transmission line. The Permittee shall locate the alignment and associated right-of-way within the Designated Route unless otherwise authorized by this route permit or the Commission. The Designated Route provides the Permittee with flexibility for minor adjustments of the alignment and right-of-way to accommodate landowner requests and unforeseen conditions.

Any modifications to the Designated Route or modifications that would result in right-of-way placement outside the Designated Route shall be specifically reviewed by the Commission in accordance with Minn. R. 7850.4900 and Section 10 of this route permit.

#### 4 RIGHT-OF-WAY

This route permit authorizes the Permittee to obtain a new permanent right-of-way for the transmission line up to [number]500 feet in width. The permanent right-of-way is typically [number]35 feet on both sides of the transmission line measured from its centerline or alignment.

The anticipated alignment is intended to minimize potential impacts relative to the criteria identified in Minn. R. 7850.4100. The final alignment must generally conform to the anticipated alignment identified on the route maps unless changes are requested by individual landowners and agreed to by the Permittee or for unforeseen conditions that are encountered or as otherwise provided for by this route permit.

Any right-of-way or alignment modifications within the Designated Route shall be located so as to have comparable overall impacts relative to the factors in Minn. R. 7850.4100, as does the right-of-way and alignment identified in this route permit, and shall be specifically identified and documented in and approved as part of the plan and profile submitted pursuant to Section 9.1 of this route permit.

Where the transmission line parallels existing highway and other road rights-of-way, the transmission line right-of-way shall occupy and utilize the existing right-of-way to the maximum

extent possible; consistent with the criteria in Minn. R. 7850.4100, and the other requirements of this route permit; and for highways under the jurisdiction of the Minnesota Department of Transportation, the procedures for accommodating utilities in trunk highway rights-of-way.

#### **5 GENERAL CONDITIONS**

The Permittee shall comply with the following conditions during construction and operation of the Transmission Facility over the life of this route permit.

#### 5.1 Route Permit Distribution

Within 30 days of issuance of this route permit, the Permittee shall provide all affected landowners with a copy of this route permit and the complaint procedures. An affected landowner is any landowner or designee that is within or adjacent to the Designated Route. In no case shall a landowner receive this route permit and complaint procedures less than five days prior to the start of construction on their property. The Permittee shall also provide a copy of this route permit and the complaint procedures to the applicable regional development commissions, county environmental offices, and city and township clerks. The Permittee shall file with the Commission an affidavit of its route permit and complaint procedures distribution within 30 days of issuance of this route permit.

# 5.2 Access to Property

The Permittee shall notify landowners prior to entering or conducting maintenance within their property, unless otherwise negotiated with the landowner. The Permittee shall keep records of compliance with this section and provide them upon the request of the Minnesota Department of Commerce (Commerce) or Commission staff.

# **5.3** Construction and Operation Practices

The Permittee shall comply with the construction practices, operation and maintenance practices, and material specifications described in the permitting record for this Transmission Facility unless this route permit establishes a different requirement in which case this route permit shall prevail.

# 5.3.1 Field Representative

The Permittee shall designate a field representative responsible for overseeing compliance with the conditions of this route permit during construction of the Transmission Facility. This person

shall be accessible by telephone or other means during normal business hours throughout site preparation, construction, cleanup, and restoration.

The Permittee shall file with the Commission the name, address, email, phone number, and emergency phone number of the field representative at least 14 days prior to the preconstruction meeting. The Permittee shall provide the field representative's contact information to affected landowners, local government units and other interested persons at least 14 days prior to the pre-construction meeting. The Permittee may change the field representative at any time upon notice to the Commission, affected landowners, local government units and other interested persons. The Permittee shall file with the Commission an affidavit of distribution of its field representative's contact information at least 14 days prior to the pre-construction meeting and upon changes to the field representative.

#### 5.3.2 Employee Training - Route Permit Terms and Conditions

The Permittee shall train all employees, contractors, and other persons involved in the Transmission Facility construction regarding the terms and conditions of this route permit. The Permittee shall keep records of compliance with this section and provide them upon the request of Commerce or Commission staff.

# 5.3.3 Independent Third-Party Monitoring

Prior to any construction, the Permittee shall propose a scope of work and identify an independent third-party monitor to conduct Project construction monitoring on behalf of the Department of Commerce. The scope of work shall be developed in consultation with and approved by the Department of Commerce. This third-party monitor will report directly to and will be under the control of the Department of Commerce with costs borne by the Permittee. Commerce staff shall keep records of compliance with this section and will ensure that status reports detailing the construction monitoring are filed with the Commission in accordance with scope of work approved by the Department of Commerce.

# 5.3.4 Public Services, Public Utilities, and Existing Easements

During Transmission Facility construction, the Permittee shall minimize any disruption to public services or public utilities. To the extent disruptions to public services or public utilities occur these shall be temporary, and the Permittee shall restore service promptly. Where any impacts to utilities have the potential to occur the Permittee will work with both landowners and local entities to determine the most appropriate mitigation measures if not already considered as part of this route permit.

The Permittee shall cooperate with county and city road authorities to develop appropriate signage and traffic management during construction. The Permittee shall keep records of compliance with this section and provide them upon the request of Commerce or Commission staff.

# 5.3.5 Temporary Workspace

The Permittee shall limit temporary easements to special construction access needs and additional staging or lay-down areas required outside of the authorized right-of-way. Temporary space shall be selected to limit the removal and impacts to vegetation. The Permittee shall obtain temporary easements outside of the authorized transmission line right-of-way from affected landowners through rental agreements. Temporary easements are not provided for in this route permit.

The Permittee may construct temporary driveways between the roadway and the structures to minimize impact using the shortest route feasible. The Permittee shall use construction mats to minimize impacts on access paths and construction areas. The Permittee shall submit the location of temporary workspaces and driveways with the plan and profile pursuant to Section 9.1.

#### 5.3.6 **Noise**

The Permittee shall comply with noise standards established under Minn. R. 7030.0010 to 7030.0080. The Permittee shall limit construction and maintenance activities to daytime working hours to the extent practicable.

#### 5.3.7 Aesthetics

The Permittee shall consider input pertaining to visual impacts from landowners or land management agencies prior to final location of structures, rights-of-way, and other areas with the potential for visual disturbance. The Permittee shall use care to preserve the natural landscape, minimize tree removal and prevent any unnecessary destruction of the natural surroundings in the vicinity of the Transmission Facility during construction and maintenance. The Permittee shall work with landowners to locate the high-voltage transmission line to minimize the loss of agricultural land, forest, and wetlands, and to avoid homes and farmsteads. The Permittee shall place structures at a distance, consistent with sound engineering principles and system reliability criteria, from intersecting roads, highways, or trail crossings.

# 5.3.8 Soil Erosion and Sediment Control

The Permittee shall implement those erosion prevention and sediment control practices recommended by the Minnesota Pollution Control Agency Construction Stormwater Program. If construction of the Transmission Facility disturbs more than one acre of land or is sited in an area designated by the Minnesota Pollution Control Agency as having potential for impacts to water resources, the Permittee shall obtain a National Pollutant Discharge Elimination System/State Disposal System Construction Stormwater Permit from the Minnesota Pollution Control Agency that provides for the development of a Stormwater Pollution Prevention Plan that describes methods to control erosion and runoff.

The Permittee shall implement reasonable measures to minimize erosion and sedimentation during construction and shall employ perimeter sediment controls, protect exposed soil by promptly planting, seeding, using erosion control blankets and turf reinforcement mats, stabilizing slopes, protecting storm drain inlets, protecting soil stockpiles, and controlling vehicle tracking. Contours shall be graded as required so that all surfaces provide for proper drainage, blend with the natural terrain, and are left in a condition that will facilitate revegetation and prevent erosion. All areas disturbed during construction of the Transmission Facility shall be returned to pre-construction conditions.

#### 5.3.9 Wetlands and Water Resources

The Permittee shall develop wetland impact avoidance measures and implement them during construction of the Transmission Facility. Measures shall include spacing and placing the power poles at variable distances to span and avoid wetlands, watercourses, and floodplains. Unavoidable wetland impacts as a result of the placement of poles shall be limited to the immediate area around the poles. To minimize impacts, the Permittee shall construct in wetland areas during frozen ground conditions where practicable and according to permit requirements by the applicable permitting authority. When construction during winter is not possible, the Permittee shall use wooden or composite mats to protect wetland vegetation.

The Permittee shall contain soil excavated from the wetlands and riparian areas and not place it back into the wetland or riparian area. The Permittee shall access wetlands and riparian areas using the shortest route feasible in order to minimize travel through wetland areas and prevent unnecessary impacts. The Permittee shall not place staging or stringing set up areas within or adjacent to wetlands or water resources, as practicable. The Permittee shall assemble power pole structures on upland areas before they are brought to the site for installation.

The Permittee shall restore wetland and water resource areas disturbed by construction activities to pre-construction conditions in accordance with the requirements of applicable state and federal permits or laws and landowner agreements.

The Permittee shall meet all requirements of the U.S. Army Corps of Engineers, Minnesota Department of Natural Resources, and local units of government.

# 5.3.10 Vegetation Management

The Permittee shall minimize the number of trees to be removed in selecting the right-of-way specifically preserving to the maximum extent practicable windbreaks, shelterbelts, living snow fences, and vegetation in areas such as trail and stream crossings where vegetative screening may minimize aesthetic impacts, to the extent that such actions do not violate sound engineering principles or system reliability criteria.

The Permittee shall remove tall growing species located within the transmission line right-of-way that endanger the safe and reliable operation of the transmission line. The Permittee shall leave undisturbed, to the extent possible, existing low growing species in the right-of-way or replant such species in the right-of-way to blend the difference between the right-of-way and adjacent areas, to the extent that the low growing vegetation that will not pose a threat to the transmission line or impede construction.

# 5.3.11 Application of Pesticides

The Permittee shall restrict pesticide use to those pesticides and methods of application approved by the Minnesota Department of Agriculture, Minnesota Department of Natural Resources, and the U.S. Environmental Protection Agency. Selective foliage or basal application shall be used when practicable. All pesticides shall be applied in a safe and cautious manner so as not to damage adjacent properties including crops, orchards, tree farms, apiaries, or gardens. The Permittee shall contact the landowner at least 14 days prior to pesticide application on their property. The Permittee may not apply any pesticide if the landowner requests that there be no application of pesticides within the landowner's property. The Permittee shall provide notice of pesticide application to landowners and beekeepers operating apiaries within three miles of the pesticide application area at least 14 days prior to such application. The Permittee shall keep pesticide communication and application records and provide them upon the request of Commerce or Commission staff.

#### 5.3.12 Invasive Species

The Permittee shall employ best management practices to avoid the potential introduction and spread of invasive species on lands disturbed by Transmission Facility construction activities. The Permittee shall develop an Invasive Species Prevention Plan and file it with the Commission at least 14 days prior to the pre-construction meeting. The Permittee shall comply with the most recently filed Invasive Species Prevention Plan.

#### 5.3.13 Noxious Weeds

The Permittee shall take all reasonable precautions against the spread of noxious weeds during all phases of construction. When utilizing seed to establish temporary and permanent vegetative cover on exposed soil the Permittee shall select site appropriate seed certified to be free of noxious weeds. To the extent possible, the Permittee shall use native seed mixes. The Permittee shall keep records of compliance with this section and provide them upon the request of Commerce or Commission staff.

#### 5.3.14 Roads

The Permittee shall advise the appropriate governing bodies having jurisdiction over all state, county, city, or township roads that will be used during the construction phase of the Transmission Facility. Where practical, existing roadways shall be used for all activities associated with construction of the Transmission Facility. Oversize or overweight loads associated with the Transmission Facility shall not be hauled across public roads without required permits and approvals.

The Permittee shall construct the fewest number of site access roads required. Access roads shall not be constructed across streams and drainage ways without the required permits and approvals. Access roads shall be constructed in accordance with all necessary township, county or state road requirements and permits.

The Permittee shall promptly repair private roads or lanes damaged when moving equipment or when accessing construction workspace, unless otherwise negotiated with the affected landowner.

#### 5.3.15 Archaeological and Historic Resources

The Permittee shall make every effort to avoid impacts to archaeological and historic resources when constructing the Transmission Facility. In the event that a resource is encountered, the Permittee shall consult with the State Historic Preservation Office and the State Archaeologist. Where feasible, avoidance of the resource is required. Where not feasible, mitigation must include an effort to minimize Transmission Facility impacts on the resource consistent with State Historic Preservation Office and State Archaeologist requirements.

Prior to construction, the Permittee shall train workers about the need to avoid cultural properties, how to identify cultural properties, and procedures to follow if undocumented cultural properties, including gravesites, are found during construction. If human remains are encountered during construction, the Permittee shall immediately halt construction and promptly notify local law enforcement and the State Archaeologist. The Permittee shall not

resume construction at such location until authorized by local law enforcement or the State Archaeologist. The Permittee shall keep records of compliance with this section and provide them upon the request of Commerce or Commission staff.

#### 5.3.16 Avian Protection

The Permittee in cooperation with the Minnesota Department of Natural Resources shall identify areas of the transmission line where bird flight diverters will be incorporated into the transmission line design to prevent large avian collisions attributed to visibility issues. Standard transmission design shall incorporate adequate spacing of conductors and grounding devices in accordance with Avian Power Line Interaction Committee standards to eliminate the risk of electrocution to raptors with larger wingspans that may simultaneously come in contact with a conductor and grounding devices. The Permittee shall submit documentation of its avian protection coordination with the plan and profile pursuant to Section 9.1.

#### 5.3.17 Restoration

The Permittee shall restore the right-of-way, temporary workspaces, access roads, abandoned right-of-way, and other public or private lands affected by construction of the Transmission Facility. Restoration within the right-of-way must be compatible with the safe operation, maintenance, and inspection of the transmission line. Within 60 days after completion of all restoration activities, the Permittee shall file with the Commission a Notification of Restoration Completion.

#### 5.3.18 Cleanup

The Permittee shall remove and properly dispose of all waste and scrap from the right-of-way and all premises on which construction activities were conducted upon completion of each task. The Permittee shall remove and properly dispose of all personal litter, including bottles, cans, and paper from construction activities on a daily basis.

#### **5.3.19** Pollution and Hazardous Wastes

The Permittee shall take all appropriate precautions to protect against pollution of the environment. The Permittee shall be responsible for compliance with all laws applicable to the generation, storage, transportation, clean up and disposal of all wastes generated during construction and restoration of the right-of-way.

#### **5.3.20** Damages

The Permittee shall fairly restore or compensate landowners for damage to crops, fences, private roads and lanes, landscaping, drain tile, or other damages sustained during construction. The Permittee shall keep records of compliance with this section and provide them upon the request of Commerce or Commission staff.

#### 5.4 Electrical Performance Standards

#### 5.4.1 Grounding

The Permittee shall design, construct, and operate the transmission line in a manner so that the maximum induced steady-state short-circuit current shall be limited to five milliamperes root mean square (rms) alternating current between the ground and any non-stationary object within the right-of-way, including but not limited to large motor vehicles and agricultural equipment. All fixed metallic objects on or off the right-of-way, except electric fences that parallel or cross the right-of-way, shall be grounded to the extent necessary to limit the induced short-circuit current between ground and the object so as not to exceed one milliampere rms under steady state conditions of the transmission line and to comply with the ground fault conditions specified in the National Electric Safety Code. The Permittee shall address and rectify any induced current problems that arise during transmission line operation.

#### 5.4.2 Electric Field

The Permittee shall design, construct, and operate the transmission line in such a manner that the electric field measured one meter above ground level immediately below the transmission line shall not exceed 8.0 kV/m rms.

# 5.4.3 Interference with Communication Devices

If interference with radio or television, satellite, wireless internet, GPS-based agriculture navigation systems or other communication devices is caused by the presence or operation of the Transmission Facility, the Permittee shall take whatever action is necessary to restore or provide reception equivalent to reception levels in the immediate area just prior to the construction of the Transmission Facility. The Permittee shall keep records of compliance with this section and provide them upon the request of Commerce or Commission staff.

#### 5.5 Other Requirements

# 5.5.1 Safety Codes and Design Requirements

SAMPLE-DRAFT PERMIT [Project Name and PUC Docket No.] Pilot Knob to Burnsville 115 kV Rebuild and Upgrade Project, Docket No. ET2/TL-23-410

The Permittee shall design the transmission line and associated facilities to meet or exceed all relevant local and state codes, the National Electric Safety Code, and North American Electric Reliability Corporation requirements. This includes standards relating to clearances to ground, clearance to crossing utilities, clearance to buildings, strength of materials, clearances over roadways, right-of-way widths, and permit requirements.

# 5.5.2 Other Permits and Regulations

The Permittee shall comply with all applicable state rules and statutes. The Permittee shall obtain all required permits for the Transmission Facility and comply with the conditions of those permits unless those permits conflict with or are preempted by federal or state permits and regulations. The Permittee shall submit a copy of such permits upon the request of Commerce or Commission staff.

At least 14 days prior to the pre-construction meeting, the Permittee shall file with the Commission an Other Permits and Regulations Submittal that contains a detailed status of all permits, authorizations, and approvals that have been applied for specific to the Transmission Facility. The Other Permits and Regulations Submittal shall also include the permitting agency or authority, the name of the permit, authorization, or approval being sought, contact person and contact information for the permitting agency or authority, brief description of why the permit, authorization, or approval is needed, application submittal date, and the date the permit, authorization, or approval was issued or is anticipated to be issued.

# 6 SPECIAL CONDITIONS

The special conditions shall take precedence over other conditions of this permit should there be a conflict.

- Proximity to Radio Antennas
- Adherence to Minnesota Department of Transportation Requirements
- Minimize Effects to Existing Wells
- Wildlife-friendly Erosion Control
- Dust Control
- Facility Lighting
- Vegetation Management Plan
- Protection of Bats
- Protections for Blanding's Turtle
- Protection of Nesting Birds

# 6.1 Proximity to Radio Antennas

The Permittee shall conduct technical studies to determine the effects of rebuilding and upgrading the transmission line in proximity to the AM 980 KKMS antennas. The study shall be based on final engineering of the transmission structure components' location in space, identify radio signal interference, determine the ability for the antennas to induce a voltage on the transmission line, and propose mitigation for any interference or induced voltage. At least 30 days prior to commencing construction within one-half-mile of the AM 908 KKMS antennas, the Permittee shall submit a compliance filing summarizing the results of the technical studies conducted, its coordination with AM 908 KKMS, and any mitigation incorporated by the Permittee. Construction in proximity to the AM 908 KKMS antennas will not be authorized until the special condition has been met.

# 6.2 Adherence to Minnesota Department of Transportation (MnDOT) Requirements

Intersection related and roadway departure crashes are two of the leading types of fatal and serious injury crashes on Minnesota Roadways. Applicable and enforceable MnDOT Special Provisions are attached to all issued utility permits to minimize impacts. In addition:

- 1) The Permittee and its contractors shall understand and follow:
  - a) MnDOT's Utility Accommodation on Highway Right of Way Policy
  - b) Utility Accommodation and Coordination Manual
  - c) MnDOT Permitting Policy and Guidance
- 2) To avoid driver sight distance impairment, the Permittee shall not place poles within sight corners of at-grade road crossings; the Permittee shall meet additional clearance requirements and clear zones relating to the state highway system as specified by MnDOT.
- 3) The Permittee shall accommodate planned and existing active transportation facilities in design and construction of the Project, and pedestrian access shall be maintained or temporarily re-routed.
- 4) The Permittee shall give MnDOT District Specialists the opportunity to participate in preconstruction meetings as they apply to MnDOT-owned property.
- 5) The Permittee shall conduct construction and restoration activities consistent with:
  - a) Applicable sections of MnDOT Facility Design Guide
  - b) MnDOT Seeding Manual
  - c) MnDOT Approved Products List for Rolled Erosion Prevention products.
- 6) The Permittee shall coordinate with MnDOT when planning transportation of oversize loads.

SAMPLE-DRAFT PERMIT [Project Name and PUC Docket No.] Pilot Knob to Burnsville 115 kV Rebuild and Upgrade Project, Docket No. ET2/TL-23-410

The Permittee shall keep records of compliance with this section and provide them upon the request of Department of Commerce or Commission staff.

# **6.3** Minimize Effects to Existing Wells

To reduce effects of the Project to existing wells, the following measures shall be implemented:

- The project is within the Emergency Response Area for the City of Eagan's wells. Any project staging should take place more than 200 feet from the City's wells.
- The project crosses both the City of Burnsville and City of Eagan Drinking Water Supply Management Areas. The Applicant and its contractors shall familiarize themselves with the Emergency Response Plans for both cities, and the applicable Plan shall be on site in construction vehicles during work, and followed in the case of a spill.
- Contact information (name, address, phone number) for all well owners with wells located within 200 feet of the transmission line shall be identified and cataloged with the well location, for use in the event of a spill or release of hazardous substance. This list of wells shall include identification of wells that aren't included in the Minnesota Well Index (https://mnwellindex.web.health.state.mn.us/#), and shall be provided to Anneka Munsell at Anneka.munsell@state.mn.us.
- Drill rigs with masts are typically required to service or seal abandoned wells. The presence of active powerlines near a well can make it difficult or impossible to safely complete this necessary work. The transmission line shall be designed to provide safe clearance and legal access for well service or sealing with a drill rig when the transmission line is active at the maximum proposed voltage. Alternatively, accommodation can be made by the Applicant to well owners to provide an alternative source of water of similar chemistry and supply, as well as sealing the existing well in accordance with Minnesota Statute, prior to energizing the transmission line.

Records of compliance shall be retained by the Permittee, and be provided to the Commission and Commerce staff upon request.

# 6.4 Wildlife-friendly Erosion Control

Due to entanglement issues with small animals, the Permittee shall use erosion control blankets limited to "bio-netting" or "natural netting" types, and shall specifically not use products containing plastic mesh netting or other plastic components, including hydro-mulch products that may contain small synthetic (plastic) fibers to aid in its matrix strength. The Permittee shall keep records of compliance with this section and provide them upon the request of Department of Commerce or Commission staff.

# 6.5 **Dust Control**

To protect plants and wildlife from chloride products that do not break down in the environment, the Permittee is prohibited from using dust control products containing calcium chloride or magnesium chloride during construction and operation. The Permittee shall keep records of compliance with this section and provide them upon the request of Department of Commerce or Commission staff.

# 6.6 Facility Lighting

To reduce harm to birds, insects, and other animals, the Permittee shall follow the MnDOT Approved Products for luminaries for new construction at substations, which limits the uplight rating to zero. A nominal color temperature below 2700K is preferable for wildlife, and selecting products that have the lowest number for backlight and glare. The Permittee shall keep records of compliance with this section and provide them upon the request of Department of Commerce or Commission staff.

# 6.7 Vegetation Management Plan

The Permittee shall develop a vegetation management plan (VMP), in coordination with the Vegetation Management Plan Working Group (VMPWG), using best management practices established by the DNR and BWSR. The Permittee shall file the VMP and documentation of the coordination efforts between the Permittee and the coordinating agencies with the Commission at least 14 days prior to the plan and profile required under this permit. The Permittee shall provide all landowners along the route with copies of the VMP. The Permittee shall file an affidavit of its distribution of the VMP to landowners with the Commission at least 14 days prior to the plan and profile.

The VMP shall include, at a minimum, the following:

- 1) short term and long-term management objectives; roles and responsibilities of site personnel.
- 2) a description of planned restoration and vegetation activities, including how the route will be prepared, timing of activities, and how seeding will occur (broadcast, drilling, etc.), and the types of seed mixes to be used.
- 3) a description of how the route will be monitored and evaluated to meet management objectives.
- 4) a description of management tools used to maintain vegetation (e.g., mowing, spot spraying, hand removal, etc.), including timing/frequency of maintenance activity.

SAMPLE-DRAFT PERMIT [Project Name and PUC Docket No.] Pilot Knob to Burnsville 115 kV Rebuild and Upgrade Project, Docket No. ET2/TL-23-410

- 5) identification, monitoring and management plan for noxious weeds and invasive species (native and non-native) on route; and
- 6) a plan showing how the route will be revegetated and corresponding seed mixes. Seed mixes, seeding rates, and cover crops should follow best management practices.

# **6.8** Protection of Bats

All seven of Minnesota's bats, including the federally endangered northern long-eared bat (*Myotis septentrionalis*), can be found throughout Minnesota. During the active season (approximately April-November) bats roost underneath bark, in cavities, or in crevices of both live and dead trees. Tree removal can negatively impact bats by destroying roosting habitat, especially during the pup rearing season when females are forming maternity roosting colonies and the pups cannot yet fly. The Permittee shall not remove trees from June 1 through August 15. If trees must be removed during this timeframe, the Permittee shall conduct a bat survey and avoid removing trees near observed bat roosts. The Permittee shall keep records of compliance with this section and provide them upon the request of Department of Commerce or Commission staff.

# 6.9 Protections for Blanding's Turtle

Blanding's turtles (*Emydoidea blandingii*) is a state-listed threatened species documented in the project vicinity. Minnesota's Endangered Species Statute (Minnesota Statutes, section 84.0895) and associated Rules (Minnesota Rules, part 6212.1800 to 6212.2300 and 6134) prohibit the take of threatened or endangered species without a permit. As such, the following avoidance measures are required:

- 1) Avoid wetland and aquatic impacts during hibernation season, between September 15th and April 15th, if the area is suitable for hibernation.
- 2) The use of erosion control blanket shall be limited to 'bio-netting' or 'natural-netting' types, and specifically not products containing plastic mesh netting or other plastic components.
  - a) Hydro-mulch products may contain small synthetic (plastic) fibers to aid in their matrix strength. These loose fibers could potentially resuspend and make their way into wetlands and other waters. The Permittee shall not allow any materials with synthetic (plastic) fiber additives in areas that drain into water bodies.
- 3) Construction areas, especially aquatic or wetland areas, should be thoroughly checked for turtles before the use of heavy equipment or any ground disturbance. Any holes or trenches that are left unattended for prolonged periods should be checked before filling.

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- 4) The Blanding's turtle flyer

  (https://files.dnr.state.mn.us/natural resources/animals/reptiles amphibians/turtles/bland ings turtle/flyer.pdf) must be given to all contractors working in the area.
- 5) Monitor for turtles during construction and report any sightings to the MDNR's QUICK

  Species Observation Form at

  <a href="https://forms.office.com/Pages/ResponsePage.aspx?id=RrAU68QkGUWPJricIVmCjJd3sXwPS">https://forms.office.com/Pages/ResponsePage.aspx?id=RrAU68QkGUWPJricIVmCjJd3sXwPS</a>

  exFr77gaXwyG4RUN1dRT1U2RFNFMlhMRDZIVU9ONks4Mk1PVS4u.
- 6) If turtles are in imminent danger they must be moved by hand out of harm's way, otherwise, they are to be left undisturbed.

The Permittee shall keep records of compliance with this section and provide them upon the request of Department of Commerce or Commission staff.

# **6.10** Protection of Nesting Birds

The Bell's vireo (*Vireo bellii*) is a state-listed bird species of special concern has been documented in the vicinity of the project. In Minnesota, Bell's vireo prefers shrub thickets within or bordering open habitats such as grasslands or wetlands. This bird suspends its nests from forks of low branches of small trees or shrubs. The Permittee shall avoid tree and shrub removal from May 15th through August 15th. If tree and shrub removal occurs during this timeframe, the Permittee shall conduct a nesting survey to avoid disturbance of nesting birds. The Permittee shall keep records of compliance with this section and provide them upon the request of Department of Commerce or Commission staff.

[Add Special Conditions in accordance with the record of the docket]

# 7 DELAY IN CONSTRUCTION

If the Permittee has not commenced construction or improvement of the route within four years after the date of issuance of this route permit the Permittee shall file a Failure to Construct Report and the Commission shall consider suspension of this route permit in accordance with Minn. R. 7850.4700.

#### 8 COMPLAINT PROCEDURES

At least 14 days prior to the pre-construction meeting, the Permittee shall file with the Commission the complaint procedures that will be used to receive and respond to complaints. The complaint procedures shall be in accordance with the requirements of Minn. R. 7829.1500 or Minn. R. 7829.1700, and as set forth in the complaint procedures attached to this route permit.

Upon request, the Permittee shall assist Commerce or Commission staff with the disposition of unresolved or longstanding complaints. This assistance shall include, but is not limited to, the submittal of complaint correspondence and complaint resolution efforts.

# 9 COMPLIANCE REQUIREMENTS

Failure to timely and properly make compliance filings required by this route permit is a failure to comply with the conditions of this route permit. Compliance filings must be electronically filed with the Commission.

# 9.1 Pre-Construction Meeting

Prior to the start of construction, the Permittee shall participate in a pre-construction meeting with Commerce and Commission staff to review pre-construction filing requirements, scheduling, and to coordinate monitoring of construction and site restoration activities. Within 14 days following the pre-construction meeting, the Permittee shall file with the Commission a summary of the topics reviewed and discussed and a list of attendees. The Permittee shall indicate in the filing the anticipated construction start date.

#### 9.2 Plan and Profile

At least 14 days prior to the pre-construction meeting, the Permittee shall file with the Commission, and provide the Department of Commerce, and the counties where the Transmission Facility, or portion of the Transmission Facility, will be constructed with a plan and profile of the right-of-way and the specifications and drawings for right-of-way preparation, construction, structure specifications and locations, cleanup, and restoration for the Transmission Facility. The documentation shall include maps depicting the plan and profile including the right-of-way, alignment, and structures in relation to the route and alignment approved per this route permit.

The Permittee may not commence construction until the earlier of (i) 30 days after the preconstruction meeting or (ii) or until the Commission staff has notified the Permittee in writing that it has completed its review of the documents and determined that the planned construction is consistent with this route permit.

If the Commission notifies the Permittee in writing within 30 days after the pre-construction meeting that it has completed its review of the documents and planned construction, and finds that the planned construction is not consistent with this route permit, the Permittee may submit additional and/or revised documentation and may not commence construction until the

Commission has notified the Permittee in writing that it has determined that the planned construction is consistent with this route permit.

If the Permittee intends to make any significant changes in its plan and profile or the specifications and drawings after submission to the Commission, the Permittee shall notify the Commission, the Department of Commerce, and county staff at least five days before implementing the changes. No changes shall be made that would be in violation of any of the terms of this route permit.

# 9.3 Status Reports

The Permittee shall file with the Commission monthly Construction Status Reports beginning with the pre-construction meeting and until completion of restoration. Construction Status Reports shall describe construction activities and progress, activities undertaken in compliance with this route permit, and shall include text and photographs.

If the Permittee does not commence construction of the Transmission Facility within six months of this route permit issuance, the Permittee shall file with the Commission Pre-Construction Status Reports on the anticipated timing of construction every six months beginning with the issuance of this route permit until the pre-construction meeting.

#### 9.4 In-Service Date

At least three days before the Transmission Facility is to be placed into service, the Permittee shall notify the Commission of the date on which the Transmission Facility will be placed into service and the date on which construction was completed.

#### 9.5 As-Builts

Within 90 days after completion of construction, the Permittee shall submit to the Commission copies of all final as-built plans and specifications developed during the Transmission Facility construction.

#### 9.6 GPS Data

Within 90 days after completion of construction, the Permittee shall submit to the Commission, in the format requested by the Commission, geo-spatial information (e.g., ArcGIS compatible map files, GPS coordinates, associated database of characteristics) for all structures associated with the Transmission Facility and each substation connected.

# 9.7 Right of Entry

The Permittee shall allow Commission designated representatives to perform the following, upon reasonable notice, upon presentation of credentials and at all times in compliance with the Permittee's site safety standards:

- (a) To enter upon the facilities easement of the property for the purpose of obtaining information, examining records, and conducting surveys or investigations.
- (b) To bring such equipment upon the facilities easement of the property as is necessary to conduct such surveys and investigations.
- (c) To sample and monitor upon the facilities easement of the property. To examine and copy any documents pertaining to compliance with the conditions of this route permit.

#### 10 ROUTE PERMIT AMENDMENT

This route permit may be amended at any time by the Commission. Any person may request an amendment of the conditions of this route permit by submitting a request to the Commission in writing describing the amendment sought and the reasons for the amendment. The Commission will mail notice of receipt of the request to the Permittee. The Commission may amend the conditions after affording the Permittee and interested persons such process as is required under Minn. R. 7850.4900.

# 11 TRANSFER OF ROUTE PERMIT

The Permittee may request at any time that the Commission transfer this route permit to another person or entity (transferee). In its request, the Permittee must provide the Commission with:

- (a) the name and description of the transferee;
- (b) the reasons for the transfer;
- (c) a description of the facilities affected; and
- (d) the proposed effective date of the transfer.

The transferee must provide the Commission with a certification that it has read, understands and is able to comply with the plans and procedures filed for the Transmission Facility and all conditions of this route permit. The Commission may authorize transfer of the route permit after affording the Permittee, the transferee, and interested persons such process as is required under Minn. R. 7850.5000.

# 12 REVOCATION OR SUSPENSION OF ROUTE PERMIT

The Commission may initiate action to revoke or suspend this route permit at any time. The Commission shall act in accordance with the requirements of Minn. R. 7850.5100, to revoke or suspend this route permit.

### **Appendix D** Socioeconomics and Environmental Justice Data

		Total Population	Population Race was determined	White only population, Not Hispanic or Latino (#)	Total Nonwhite Population (%)	Total Housing Units (number)	Vacant Housing Units (number)	Housing Vacancy (%)	Median Household Income (in 2022 Inflation Adjusted US Dollars)	Poverty level determined	Persons at or below 200 percent poverty level (#)	Persons at or below 200 percent poverty level (%)	Unemployment Rate (%)	Limited English Speaking Households (%)	Limited English Speaking Households (#)
Dakota County		418,201	439,882	330,482	24.9%	173,469	5,461	3.1%	97,501	440,766	64,200	14.6%	3.1%	2.9%	12,033
Minnesota		5,527,358	5,717,184	4,415,751	22.8%	2,485,558	163,368	6.6%	82,338	5,599,770	1,238,999	22.1%	2.2%	2.3%	127,510
Census Tract 607.16	Eagan	3,684	4,128	2,585	37.4%	1,416	42	3.0%	123,304	4,167	541	13.0%	4.2%	4.4%	161
Census Tract 607.29	Eagan	3,842	3,697	3,003	18.8%	1,527	19	1.2%	130,400	3,653	242	6.6%	3.8%	3.8%	146
Census Tract 607.31	Eagan	4,431	5,371	4,810	10.4%	1,788	23	1.3%	149,554	5,604	246	4.4%	1.2%	0.6%	28
Census Tract 607.33	Eagan	3,845	4,037	2,968	26.5%	1,737	74	4.3%	82,470	4,072	686	16.8%	10.9%	1.5%	58
Census Tract 607.35	Eagan	5,388	4,888	3,579	26.8%	2,083	50	2.4%	66,250	4,217	1,368	32.4%	9.9%	1.1%	58
Census Tract 607.43	Eagan	1,681	1,485	706	52.5%	595	19	3.2%	103,980	1,508	406	26.9%	3.9%	4.1%	69
Census Tract 607.50	Eagan	4,598	4,393	3,269	25.6%	2,163	104	4.8%	72,394	4,555	1,542	33.9%	1.1%	2.1%	95
Census Tract 607.38	Burnsville	3,287	3,552	2,399	32.5%	1,510	70	4.6%	97,500	3,839	659	17.2%	3.4%	6.9%	228
Census Tract 607.47	Burnsville	3,576	4,078	2,722	33.3%	1,688	51	3.0%	98,002	4,170	732	17.6%	3.0%	3.7%	131
Census Tract 607.14	Burnsville	4,513	4,806	3,355	30.2%	1,894	63	3.3%	89,564	4,908	1,315	26.8%	6.3%	6.5%	295
Census Tract 607.54	Burnsville	4,916	4,874	2,979	38.9%	1,964	45	2.3%	92,857	4,958	786	15.9%	6.3%	6.8%	336
Census Tract 608.06	Apple Valley	6,117	6,331	4,840	23.6%	2,213	51	2.3%	129,358	5,976	906	15.2%	4.5%	0.0%	0
Total or average for Cer	nsus Tracts	49,878	51,640	37,215	27.9%	20,578	611	3.0%	102,969	51,627	9,429	18.9%	4.9%	3.5%	1,605

#### Sources

https://data.census.gov/table/ACSST5Y2022.S1701?t=Income%20 and %20 Poverty &g=1400000 US27037060714,27037060729,27037060731,27037060733,27037060735,27037060743,27037060743,27037060750,27037060754,27037060806

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https://data.census.gov/table/ACSST5Y2022.S2301?t=Employment&g=1400000US27037060714,27037060716,27037060729,27037060731,27037060733,27037060735,27037060743,27037060743,27037060750,27037060754,27037060806

https://data.census.gov/table/ACSDT1Y2022.B16003?t=Language%20Spoken%20at%20Home&g=050XX00US27037

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https://data.census.gov/table/ACSST1Y2022.S2301?t=Employment&g=050XX00US27037

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 $https://data.census.gov/table/ACSDT5Y2018.B01003?t=Population%20Total&g=040XX00US27_050XX00US27_037060714,27037060714,27037060731,27037060733,27037060735,27037060743,27037060743,27037060750,27037060754,270370$ 

Appendix E Correspondence related to Minnesota Department of Transportation Facilities



Office of Land Management 395 John Ireland Boulevard Saint Paul, MN 55155 MS 678

March 6, 2024

Richard Davis, Environmental Review Manager Minnesota Department of Commerce 85 7th Place East, Suite 280 Saint Paul, MN 55101

RE: In the Matter of Application of Great River Energy for a Route Permit for the 115-kV Pilot Knob to Burnsville Rebuild and Upgrade Project in Dakota County, Minnesota PUC Docket Number: ET-2/TL-23-410

Dear Mr. Davis,

On February 9<sup>th</sup>, 2024, the Minnesota Public Utilities Commission (Commission) and the Minnesota Department of Commerce (DOC) issued a Notice of Public Information and Environmental Assessment Scoping Meetings on Great River Energy's (Applicant) route permit (RP) application for the Pilot Knob to Burnsville 115-kV Transmission Line Rebuild and Upgrade Project (Project). The Minnesota Department of Transportation (MnDOT) has reviewed the application regarding the proposed project and submits the following comments in response to the Notice.

Based on the information provided in the RP, information provided in MnDOT's Early Notification Memo (ENM)<sup>1</sup> request, and from conversations with the Applicant, the proposed Project will impact Minnesota State Trunk Highways (TH) 13 and 77, and Interstate (I) 35E. MnDOT has met with Project staff to discuss the project's potential effects on the state trunk highway system. This information is represented in Appendix D of the Project RP application. MnDOT's full project review, including mitigative suggestions, recommendations, permit requirements, and overall impacts are reflected in this submission.

### **Planning**

Because MnDOT's highway construction activities could impact the Applicant's overall project plans, or plans to haul oversize loads to the proposed site(s), the Applicants will need to coordinate with MnDOT when planning such loads. The funding and timing of these projects can change and therefore, the Applicants should regularly check the project planning sites for MnDOT Metro District. This coordination includes, but is not limited to, State Project construction, holiday travel restrictions, seasonal load limits, vertical and width restrictions and updates to escort requirements for oversized vehicles Chapter 100 - MN Laws. Additional MnDOT District Planning comments can be found in Attachment 1 of this letter.

<sup>&</sup>lt;sup>1</sup> MnDOT has created an ENM form to aid project proposers/Applicants in identifying and providing information on areas of potential project-specific impacts that are relevant to our agency and require additional review.

### Office of Environmental Stewardship

As a standard part of our review process, all applicable MnDOT utility permit applications are subject to review by our Office of Environmental Stewardship (OES). These reviews may result in additional construction criteria, extended permit review times, utility permit special provisions, and/or a request to move portions of a planned project outside of any given area of concern. A summary of each OES resource group's comments, recommendations and requirements pertaining to various environmental resources is provided in *Attachment 1* of this letter. Attention should be paid to MnDOT's requested deliverables that may be required for future utility permit application approvals.

### **Expected Permit Requirements**

The Applicants and their contractors should familiarize themselves with both MnDOT's Utility Accommodation on Highway Right of Way Policy and Utility Accommodation and Coordination Manual, both found here: MnDOT Policy and Guidance Utility Agreements & Permits. Aside from required MnDOT utility permits for any pole placement that may occur, MnDOT utility permits are also required for any aerial encroachment of the state trunk highway right-of-way system, including aerial transmission lines crossings, aerial encroachment from cross arms, and transmission line conductor movement envelope or "blowout." To avoid driver sight distance impairment, poles may not be placed within sight corners of atgrade road crossings. To allow adequate clearance for maintenance and construction activities, poles are to be placed at a 50-foot minimum from the six bridges within the project area. Except in areas of controlled access<sup>2</sup>, trunk highway collocation requires poles be placed outside of clear zones and within the outer 5 feet of the road right-of-way, wherever possible and practical. Applicable and enforceable MnDOT Special Provisions are attached to all issued utility permits. MnDOT reserves the right to conduct post-construction inspections on MnDOT right-of-way to verify compliance with Commission and MnDOT permit conditions. Expanded utility permit requirement language is provided in Attachment 1 of this letter. It is the Applicant's responsibility to use MnDOT mapping to show their proposed work along with all existing utilities within the affected highway rights-of-way. These maps should accompany all MnDOT permit applications at the time of submittal - MnDOT Permit Forms. The Applicants may also need to apply for oversize/overweight hauling permits during construction of this project. OSOW hauling information and permit applications can be found here: OSOW Permits.

Should the Commission issue a route permit for the Project, continued coordination with our agency is strongly encouraged. Any MnDOT permits applied for as a part of the Project may not be issued until the Commission has issued an approved route permit. MnDOT District Specialists should be given the opportunity to participate in pre-construction meetings as they apply to MnDOT-owned property. All applicable permitting, traffic control and construction coordination efforts should be made through Buck Craig, Metro District Engineering Specialist Senior at 651-775-0405 / buck.craig@state.mn.us.

MnDOT has a continuing interest in working with the Commission, the DOC EERA, and the Applicant to ensure that possible impacts to the entire state trunk highway system, traveling public and environmentally significant areas of concern are adequately addressed.

<sup>&</sup>lt;sup>2</sup> The condition where the right of owners or occupants of abutting land or other persons to access, light, air, or view in connection with a highway is fully or partially controlled by public authority. (Minnesota Statutes § 160.08.)

Thank you for the opportunity to provide these comments.

Sincerely,

/s/Stacy Kotch Egstad

Utility Routing and Siting Coordinator
Minnesota Department of Transportation
Office of Land Management
stacy.kotch@state.mn.us

Attachment 1: MnDOT OES & Functional Group Comments and Recommendations

ec: Buck Craig – MnDOT Metro District Permits
Tod Sherman – MnDOT Metro District Planning Director
Paul Hartzheim – MnDOT Environmental Review Specialist

**Equal Opportunity Employer** 



## **ATTACHMENT 1**

**GRE PILOT KNOB – BURNSVILLE 115KV TL-23-410** 

**MNDOT OES & FUNCTIONAL GROUP COMMENTS** 

Resource	Comments
Federal and State-listed Protected Species	The Applicant should consult with the U.S. Fish and Wildlife Service (USFWS) with respect to listed species which may occur within the project area, and limit ground disturbances to the extent practical in areas of semi-natural or natural vegetation. State-listed threatened and endangered species may be located along portions of the route along MnDOT right-of-way (ROW). We recommend the Applicant consult with the Minnesota Department of Natural Resources (MDNR) to identify recorded locations and conduct species-specific surveys prior to construction to confirm locations prior to identifying pole placement and temporary workspaces. MnDOT requests copies of all biological field survey data/reports within its ROW be submitted to MnDOT.
Federal and State-listed Protected Species	Herbicide use must be minimized during construction and future maintenance occurring on MnDOT ROW. If used, herbicide must be applied via hand-held spot treatments applied to individual plants. Avoid broadcast applications of herbicides without further consultation to MnDOT Office of Environmental Stewardship. Restrict all activities to avoid the application of insecticides and fungicides on MnDOT ROW.
Federal and State-listed Protected Species	*If project is within or near (one half-mile) a High Potential Zone for Rusty Patch Bumble Bee* The proposed project, at the time of this review, falls within or near a USFWS identified High Potential Zone (HPZ) for the federally endangered rusty-patched bumble bee. Note the USFWS updates these boundaries annually, typically in March. The Applicant and its contractors must consult the USFWS HPZ map ( <a href="https://www.fws.gov/species/rusty-patched-bumble-bee-bombus-affinis/map">https://www.fws.gov/species/rusty-patched-bumble-bee-bombus-affinis/map</a> ) each spring to ensure project activities occurring in MnDOT right-of-way remain outside of an USFWS identified HPZ for the rusty-patched bumble bee. Contact MnDOT OES at <a href="mailto:protectedspecies.dot@state.mn.us">protectedspecies.dot@state.mn.us</a> immediately if the project is now within the boundaries identified by USFWS.
Federal and State-listed Protected Species	The Applicant must establish native vegetation in areas that are not proposed to be mowed more than once per year, and must include mowing and spot treatment control to establish seeded vegetation, as shown in the MnDOT Seeding Manual (see <a href="http://www.dot.state.mn.us/environment/erosion/vegetation.html">http://www.dot.state.mn.us/environment/erosion/vegetation.html</a> ).

### The Applicant should minimize tree clearing/trimming within MnDOT ROW to extent possible. Tree clearing may be restricted to winter months (November 15 - March 31). On MnDOT ROW, additional tree clearing restrictions will typically be included in MnDOT's utility permit. If construction activities occur within the nesting season for migratory birds, conduct pre-construction nest surveys. If Avian active nests are discovered, implement a Migratory Bird Plan to avoid and minimize impacts. Protection \*If eagle nests are documented in the vicinity of project\* Eagle nests are documented in the vicinity of the project. Additional surveys are encouraged and coordination with the USFWS may be required. Construction activities may be restricted within a certain radius if the nest is deemed to be active. It is the responsibility of the Applicant to identify the potential to encounter contaminated materials (soil/groundwater/vapor) on or within 500-feet of MnDOT ROW. The Applicant should provide to MnDOT all environmental due diligence documents (e.g., desktop Contaminated review, Phase I Environmental Site Assessments, Phase II), as applicable/available. If access or sampling is proposed in MnDOT's ROW, a permit will be required (see https://www.dot.state.mn.us/utility/forms.html). Materials Management Contaminated materials encountered during any work within MnDOT ROW is required to be managed in accordance with applicable federal/state and location regulations and/or guidance documents.

Pesticides: Require Applicant to develop a Vegetation Management/Pesticide/Revegetation Plan and submit for MnDOT review/approval. Any proposed pesticides and application rates should be submitted to MnDOT for approval (NOTE: Use of herbicides or similar chemistries may be limited to spot treatments via hand tools only [i.e., no equipment mounted broadcast applications]).

- Herbicide used on MnDOT ROW must be labeled for use on rights-of-way.
- Pesticide applicators must be state- certified in Categories A and J (see: <a href="https://www.mda.state.mn.us/pesticide-fertilizer/pesticide-applicator-license-types">https://www.mda.state.mn.us/pesticide-fertilizer/pesticide-applicator-license-types</a>)
- Herbicide records for work on MnDOT's ROW must be provided to the local MnDOT District Office

Noxious/Invasive Weeds: Prior to construction, the Applicant should conduct a field survey for noxious weeds in all project workspaces. If any state prohibited or county designated noxious weeds (<a href="https://www.mda.state.mn.us/plants-insects/minnesota-noxious-weed-list">https://www.mda.state.mn.us/plants-insects/minnesota-noxious-weed-list</a>) are identified within installation limits on MnDOT's ROW, the Applicant must submit its Invasive Species Prevention Plan to the Office of Environmental Stewardship-Roadside Vegetation Management Unit for review and approval. All efforts must be made to prevent transportation of propagative parts to new areas. Movement of propagative parts of these plants is prohibited by Minnesota Statutes, Section 18.82. If transportation of soil or plant parts from the site are necessary, a transportation permit will be required. Questions regarding noxious weed law or noxious weed transportation permits can be directed to the Minnesota Department of Agriculture at <a href="noxiousweeds.mda@state.mn.us">noxiousweeds.mda@state.mn.us</a>.

### Roadside Vegetation Management

Native vegetation: Parking, staging, and operating equipment in this area should be kept to a minimum level to accomplish the installation. Parking of vehicles or equipment not directly required for the utility installation in this area should be restricted and remain on the road surfaces. Failure to adhere to the above recommendations may lead to unnecessary damage and compaction of native plants and soils.

Restoration: If areas are disturbed on MnDOT's ROW, the area must be restored to a similar vegetation cover, except when that vegetation will endanger safe operation or maintenance of the utility/facility. Seeding should match existing surrounding vegetation, and native seed must have a yellow tag through the Source Identified Native Seed Program. Any seed that is to be planted on MnDOT's ROW must be a mix approved in MnDOT's seeding manual:

https://www.dot.state.mn.us/environment/erosion/pdf/seedingmanual.pdf.

Woody Debris Management - Tree and brush clearing can only occur between November 15th and March 31st. The Applicant will dispose of trees, brush, stumps, roots, and other debris or byproducts by chipping, tub grinding, or marketing. Chip/mulch can be used as erosion control for the project, however, any mulch/chip and debris not used will be removed from the right of way. If stumps are not ground out, they must be cut no higher than 3 inches above the ground line and treated with an approved herbicide labeled for use on rights of way to inhibit re sprouting. If the stump is treated, the Applicant must submit a record of herbicide application to the MnDOT Authorized Representative. Marketable trees are defined as all trees except elm, oak wilt infected oak trees and ash. Dispose of ash, pine, elm, and oak wilt infected trees in accordance with proper forestry disposal standards to prevent the spread of insects and disease. For trees designated to remain during operations, if soil excavation must take place within the tree(s) dripline, the Applicant will cleanly cut all tree roots along the excavation limits in accordance with MnDOT Standard Specification 2572.3A.2. If during the Applicant's operations it exposes or damages roots on trees designated to remain, immediately and cleanly cut damaged and exposed roots and place topsoil over the exposed area. If the Applicant wounds a tree designated to remain, they must notify the MnDOT Authorized Representative.

MnDOT reserves the right to conduct its own inspection on MnDOT ROW (during and post-construction) to verify restoration status prior to the Applicant filing their Notification of Restoration Completion with the Commission.

### Specific comments:

Please note that in its role as the Wetland Conservation Act LGU within MnDOT ROW, MnDOT OES requires either (a) a Level 2 wetland delineation to be completed within the TH ROW areas where permanent impacts are proposed (pole placement as well as other permanent fill, excavation, and drainage), or (b) the project must comply with all conditions of the MN Wetland Conservation Act 8420.0420 Subp.4. Federal Approvals exemption (in which case notification to MnDOT is required) or the Subp.6. Utilities exemption (in which case either all permanent disturbance must total <0.5 acre, or a Level 2 delineation must confirm that all permanent wetland impacts total <0.5 acre).

### Wetlands Coordination

### General comments:

Any ground disturbance (e.g., fill, excavation, direct or indirect drainage) of regulated aquatic resources must comply with all applicable federal Clean Water Act Section 404, Minnesota Wetland Conservation Act (WCA), and MDNR Public Waters Work requirements. Any required wetland delineations require approval by MnDOT OES, as the Local Government Unit (LGU) responsible for administering the WCA within state TH ROW.

The project must restore any temporary impacts and avoid, minimize, and mitigate any permanent impacts to delineated aquatic resources to the extent required by state and federal law. This includes implementing Best Management Practices (BMPs) during construction to minimize aquatic resource disturbance, including compaction, erosion, and sedimentation.

MnDOT reserves the right to conduct field inspections within its ROW.

### Water Permits -Federal Agencies, Floodplains

### \*If floodplains are crossed by the project\*

The Applicant should make efforts to avoid placement of structures or fill in floodplain areas in order to minimize adverse impacts and increased risk of flooding. The Applicant should engage with local floodplain permitting authorities to determine permitting and other requirements. The project may also involve work affecting waters of the US in which case a Section 404 authorization from the U.S. Army Corps of Engineers would be needed.

Review of applicable databases on February 2, 2024, and the letter from Merjent to SHPO sated August 8, 2023, titled "Great River Energy - Pilot Knob to Burnsville Project Archaeological Overview," (provided as part of the review packet) indicate there are no known or suspected archaeological sites or burials within MnDOT R/W along the proposed route. Further no listed National or State Register of Historic Places historic properties are within or adjacent to MnDOT R/W along the proposed route.

### Cultural Resources

The Applicant should provide summary of cultural field surveys and coordination with SHPO to date when submitting permit applications. If surveys have not been completed but are planned, provide an anticipated schedule for completion. If the Applicant is aware of or becomes aware of significant cultural resources findings in or adjacent to MnDOT ROW, please contact our office at <a href="CulturalResources.dot@state.mn.us">CulturalResources.dot@state.mn.us</a>. In addition, the Applicant shall prepare a Post Review Discovery Plan (PRDP) and submit to MnDOT for review and contact information for CRU staff to be included in the PRDP. This plan should outline the steps to be followed in the event of any discovery of archaeological materials, human remains, or burials, and include language specific to the coordination with MnDOT when a discovery is on MnDOT R/W. MnDOT Cultural Resources Unit (CRU) staff should be notified (<a href="CulturalResources.dot@state.mn.us">CulturalResources.dot@state.mn.us</a>) within 24 hours/days in the event of an discovery on MnDOT property during construction.

Additional archaeological investigations (e.g., literature reviews, reconnaissance surveys [if warranted]) may be required, depending on the permit application areas received, where co-location is proposed or where temporary easement may be located within MnDOT ROW. Investigations should include in-field inspections to document areas of soil disturbance and to identify potentially unknown archaeological sites within areas of moderate to high archaeological potential. A PRDP should be developed for the project in advance of construction and provided to MnDOT CRU.

# Environmental Assessment Unit / Environmental Review

If the Project will involve any construction activities within MnDOT ROW, the Applicant (and/or their Contractor) must comply with the following, relating to the conduct of work on the Project or to individuals engaged in work for the Project or employed on the Project:

- (1) All applicable State and Federal laws and regulations
- (2) Orders and decrees of bodies and tribunals with lawful jurisdiction over the work
- (3) Such local ordinances as are applicable to the work

MnDOT's Environmental Assessment Unit reserves the right to request copies of the Applicant's environmental permits for work within its ROW as well as any inspection reports completed by the Applicant and/or its contractor.

### If the Project ultimately meets the established disturbance threshold, the Applicant will be required to obtain coverage under the Minnesota Pollution Control Agency's (MPCA) Construction Stormwater General Permit (MNR100001). If a portion of the final alignment is located within MnDOT ROW, we request that the Applicant submit a copy of its Construction Stormwater Pollution Prevention Plan (SWPPP)/erosion and sediment control details to MnDOT OES for review prior to filing its Notice of Intent for coverage under MPCA's MNR100001. In addition, MnDOT reserves the right to conduct inspections of the project for portions that are within MnDOT ROW during and/or after construction. The Applicant (and/or its contractor) will be the Owner on this permit for any work on MnDOT ROW - MnDOT will not be a co-Applicant. Soil Erosion and Sediment Soil compaction caused by equipment traffic and haul roads on MnDOT ROW must be mitigated using techniques described in the Control / MnDOT Facility Design Guide Chapter 13 (https://roaddesign.dot.state.mn.us/facilitydesign.aspx). Stormwater Temporary and permanent erosion and sediment control measures on MnDOT ROW must follow standards in the MnDOT Facility Design Guide Chapter 13 (https://roaddesign.dot.state.mn.us/facilitydesign.aspx). Seeding on MnDOT ROW must follow standards in MnDOT Seeding Manual (https://www.dot.state.mn.us/environment/erosion/vegetation.html). Any erosion control blanket must be free of plastic netting and on the MnDOT Approved Products List for Rolled Erosion Prevention products. In addition, any hydraulic mulch used up-slope of Public Waters must be free of plastic fiber additives. Direct coordination with applicable District Permitting Staff will be required for all downstream MnDOT utility permits. MnDOT Permitting Policy and Guidance can be found at: http://www.dot.state.mn.us/utility/guidance.html. Make reference to the Project name District **Permitting Staff** and MPUC docket number on ALL MnDOT permit applications. Any work that affects MnDOT right of way will require a permit. All MnDOT utility permits are available and must be applied at: https://olpa.dot.state.mn.us/OLPA/.

## <u>State Highway current construction projects</u>: Please note that MnDOT projects on state highways may affect travel routes to the project site, and/or may alter access points. To learn which projects might be in the area please review the current MnDOT construction projects website at <a href="https://www.dot.state.mn.us/construction/index.html">https://www.dot.state.mn.us/construction/index.html</a> and click on the district where your project is located.

## District Planning Staff

State Highway planned and future projects: MnDOT plans projects along state highways up to 10 years in advance. Please check the area in which your project is located at <a href="https://www.dot.state.mn.us/roadwork/index.html#gsc.tab=0">https://www.dot.state.mn.us/roadwork/index.html#gsc.tab=0</a> to see which projects might coincide with your project. Note that project timing can change, particularly for projects that are identified as being planned for 5 to 10 years in the future. You may also reach out to the district Planning contact or district Project Manager for more information.

Access: Because there is a direct connection between crash rates and access density on state trunk highways, project proposers should plan to utilize access points on local roads whenever possible. Access from MnDOT right-of-way whether at an existing driveway or new driveway is not guaranteed, and new highway access permits will be required in either case. Please contact District Permitting staff for more information about permit applications, processes, and requirements.

<u>Powerlines:</u> Lateral placement of utility poles or non-crashworthy must be placed outside the roadway's clear zone and should avoid the need for traffic barrier shielding. Any side slope grading within the roadway clear zone must not result in a hazardous geometry for run-off vehicles. Place poles as far out of the clear zone as possible. Additional distance from the roadway is encouraged, for roadway and driver safety. Added poles must not be placed closer to the trunk highway than existing poles. Utility poles/devices must not obstruct intersection sight lines. Appurtenances protruding more than four inches above the ground line shall be located outside the clear zone and as close to the edge of the ROW as practical, and must not obstruct intersection sight lines. Appurtenances within the roadway clear zone must be crashworthy. See MnDOT's Facility Design Guide - Chapter 10 (https://roaddesign.dot.state.mn.us/facilitydesign.aspx) for a definition of "crashworthy" and other pertinent information.

### Design Support / Safety and Operations Management

Access Roads: Additional access points off the trunk highway are discouraged and should be avoided. For proposed access roads, the transverse slope design for permanent access roads connected to the trunk highway must be 1V:6H or flatter on the roadside and 1V:10 or flatter if in the median. See Transverse Slopes in the MnDOT's Facility Design Guide - Chapter 10.

For other technical components and requirements for utility owners regarding the location, design, and methods for installing, adjusting, accommodating, and maintaining utility facilities on such rights of way, please refer to MnDOT Utility Accommodation and Coordination Manual, found here: <a href="https://www.dot.state.mn.us/utility/projectdelivery.html">https://www.dot.state.mn.us/utility/projectdelivery.html</a>.

To understand why these rules and comments exist, intersection related and roadway departure crashes are two of the leading types of fatal and serious injury crashes on Minnesota Roadways. These comments reflect measures needed to continue to prevent these types of crashes. To find out more about Minnesota safety efforts, please see our Strategic Highway Safety Plan. <a href="https://www.dot.state.mn.us/trafficeng/safety/shsp/">https://www.dot.state.mn.us/trafficeng/safety/shsp/</a>

### Metro Multi-Modal

There are existing or planned active transportation facilities along all parts of the proposed utility path. MnDOT expects the developer to retain the existing and planned Pedestrian Access Routes, the accessible, continuous, and unobstructed portion of a walkway e.g., sidewalks, sidepaths, etc. The developer should place utility poles in a frontage or buffer that should extend at least 1 foot beyond the edge of the object to allow for pedestrian shy distance from these objects. During construction, the developer will need to provide a temporary pedestrian access route. The developer should consider winter maintenance and assume that snow will be removed from sidepaths and streets and moved into the buffer and may want to allow an additional 1 foot of clear distance between the utility poles and the edge of the pathway. Finally, because children are normally smaller than adults, motorists may have difficulty seeing them at street crossings. Utility poles should not inhibit a driver's ability to see children. MnDOT expects the developer to review sight lines at all intersections within school zones.

## Appendix F Electric and Magnetic Field Estimates

Electric and Magnetic Field Estimates, Pilot Knob to Burnsville 115 kV Rebuild and Upgrade Project<sup>1</sup>

There are two scenarios of transmission and distribution line configurations associated with the project:

Scenario 1: The segment between Pilot Knob Substation and the intersection with Deerwood Drive is double circuit (approximately 1 mile). There is no distribution underbuilt on structures.

The 115 kV is modeled as bundled conductor.

Scenario 2: A majority of the remaining alignment is single circuit with distribution underbuilt on the structures. The 115 kV is modeled as bundled conductor.

<sup>&</sup>lt;sup>1</sup> Estimates provided to Commerce by GRE, July 19, 2024

### Scenario 1: Double Circuit, No Distribution Underbuild

### Electric Fields

Table F1 Calculated Electric Fields (kV/m) for Double Circuit Line (One meter [3.28 feet] above ground)

		Distance to Proposed Alignment – Electric Field (feet)											
Operating Voltage (kV)	Max Operating Voltage (kV)	-300	-200	-100	-50	-25	Max	25	50	100	200	300	
115 kV Double Circuit	121	0.02	0.04	0.12	0.06	0.78	2.37	0.78	0.07	0.12	0.04	0.02	
69 kV Double Circuit	72	0.01	0.02	0.07	0.04	0.47	1.41	0.47	0.04	0.07	0.02	0.01	

### Magnetic Fields

Table F2 Calculated Magnetic Fields (mG) for Proposed Alignment Design

			Distance to Proposed Alignment – Magnetic Field (feet)										
Operating Voltage	Max Operating Voltage (kV)	Line Current (Amps)	-300	-200	-100	-50	-25	Max	25	50	100	200	300
115 kV Peak Load	121	241	0.52	1.21	4.64	14.19	29.19	44.90	29.19	14.19	4.64	1.21	0.52
115 kV Average Load	121	151	0.32	0.76	2.91	8.89	18.29	28.13	18.29	8.89	2.91	0.76	0.32
69 kV Peak Load	72	402	0.86	2.02	7.74	23.66	48.69	74.90	48.69	23.66	7.74	2.02	0.86
69 kV Average Load	72	251	0.54	1.26	4.83	14.78	30.40	46.77	30.40	14.78	4.83	1.26	0.54

### Scenario 2: Single Circuit, Distribution Underbuild

### Electric Fields

Table F3 Calculated Electric Fields (kV/m) for Double Circuit Line (One meter [3.28 feet] above ground)

			Distance to Proposed Alignment – Electric Field (feet)											
Operating Voltage (kV)	Max Operating Voltage (kV)	-300	-200	-100	-50	-25	Max	25	50	100	200	300		
115 kV Single Circuit	121	0.01	0.02	0.07	0.04	0.18	0.25	0.10	0.05	0.06	0.02	0.01		
69 kV Single Circuit	72	0.01	0.01	0.04	0.03	0.08	0.15	0.09	0.02	0.03	0.01	0.01		

### Magnetic Fields

Table F4 Calculated Magnetic Fields (mG) for Proposed Single Circuit Alignment Design

			Distance to Proposed Alignment – Magnetic Field (feet)										
Operating Voltage	Max Operating Voltage (kV)	Line Current (Amps)	-300	-200	-100	-50	-25	Max	25	50	100	200	300
115 kV Peak Load	121	241	0.201	0.473	1.705	4.171	6.527	23.45	14.56	6.542	2.11	0.546	0.228
115 kV Average Load	121	151	0.123	0.293	1.079	2.727	4.066	12.30	8.166	3.787	1.246	0.324	0.135
69 kV Peak Load	72	402	0.322	0.778	2.928	7.665	11.56	27.51	19.47	9.348	3.143	0.822	0.342
69 kV Average Load	72	251	0.2	0.488	1.858	4.981	7.719	15.42	11.30	5.558	1.897	0.499	0.207