

March 31, 2016

### VIA ELECTRONIC FILING

Mr. Daniel P. Wolf Executive Secretary Minnesota Public Utilities Commission 350 Metro Square Building 121 Seventh Place East St. Paul, MN 55101

# Re: In the Matter of the Route Permit Application by Great River Energy and Minnesota Power for a 115 kV Transmission Line near Menahga, Minnesota -Docket No. ET2, E015/TL-14-797 – Request for Minor Alteration

Dear Mr. Wolf:

Great River Energy, on behalf of Great River Energy and Minnesota Power ("Permittees"), requests that the Minnesota Public Utilities Commission ("Commission") approve a minor alteration of the route permitted (the "Permitted Route") in the Route Permit issued by the Commission on March 14, 2016 for the Menahga Area 115 kV Project ("Project") pursuant to Minnesota Rule 7850.4800.

Specifically, Great River Energy requests that the Commission approve two route/alignment modifications to the Permitted Route in the Blueberry Substation to Red Eye Substation segment in Wadena County to address landowner concerns. A minor alteration approval is appropriate because the requested changes have impacts comparable to the impacts associated with the Permitted Route and configuration and therefore do not result in significant change in the human or environmental impact of the facility.

### **Background**

On March 14, 2016, the Commission issued an Order granting Permittees a Route Permit for the Project.

Minnesota Power will own and construct only a small portion of the Menahga Project, including the Straight River Substation and the short transmission line between the Straight River Substation and the Straight River Switch. Great River Energy will own and construct the remainder of the Menahga Project, including the segment between Blueberry Station and Red Eye Substation.

Since the January 28, 2016 meeting during which the Commission orally approved the Certificate of Need and Route Permit, Great River Energy has undertaken more site-specific review, including real estate records review and landowner discussions, and commenced detailed design work. Through these efforts, Great River Energy has identified two areas where route adjustments would be appropriate to minimize impacts to human settlement.

## Applicable Law

A minor alteration is a change in a high voltage transmission line that does not result in significant changes in the human or environmental impact of the facility subject to the Power Plant Siting Act, Minnesota Statutes Chapter 216E. Minn. R. 7850.4800, Subp. 1. Permittees requesting a minor alteration must submit the application to the Commission. Minn. R. 7850.4800, Subp. 2. The Commission is authorized to approve a minor alteration after providing "at least a ten-day period for interested persons to submit comments on the application or to request that the matter be brought to the [C]ommission for consideration." Minn. R. 7850.4800, Subp. 2.

### **The Minor Alterations**

Great River Energy requests two alterations in the Blueberry Substation to Red Eye Substation segment of the Project. An overview map showing the alterations is enclosed as **Exhibit A**. Each of the alterations is described in more detail below.

### Minor Alteration 1:

In the Order issued March 14, 2016, the Permitted Route between the Blueberry Substation and 350<sup>th</sup> Street is as follows: the line exits the Blueberry Substation and follows the existing Great River Energy 34.5 kV line east about 1,000 feet to the existing Minnesota Pipe Line corridor, turns to the southeast and parallels on the west side of the pipeline corridor for about ¼ mile to the south side of 350<sup>th</sup> Street, then heads east along 350<sup>th</sup> Street for about 1/3 mile. The line then turns south to follow 119<sup>th</sup> Avenue.

Great River Energy has had conversations with the landowner who owns the property along the pipeline corridor and 350<sup>th</sup> Street. This landowner is very concerned about impacts to the pond that he created (with input from the US Army Corps of Engineers) along the pipeline corridor (south of Structures 105 and 106 – **Exhibit B**) and impacts to his business and home along 350<sup>th</sup> Street, even if the transmission line were to be located on the opposite side of 350<sup>th</sup> Street. The landowner requested that the line not follow the pipeline corridor at all and that the re-routed transmission line be completely within his property. He has proposed that the transmission line would parallel the south side of Great River Energy's 34.5 kV corridor for about ½ mile to just before his east property line, where the line would turn south for approximately ¼ mile to 119<sup>th</sup> Avenue (**Exhibit B**).

Great River Energy reviewed the landowner's request and determined it is constructible and reasonable. With the exception of wetland impacts, it will have impacts comparable to the original alignment. Approximately ¼ mile of the proposed new alignment is cross-country through a forested wetland (impacting about 2.4 additional acres). The proposed new alignment would reduce construction costs by an estimated \$84,000.

## Minor Alteration 2:

Along the original 119<sup>th</sup> Avenue alignment between 350<sup>th</sup> Street and County State Aid Highway 13, the transmission line comes within approximately 275 feet of a home in Section 4, T137N, R35W. During the January 28, 2016 meeting during which the Commission orally approved the Certificate of Need and Route Permit, the Commission directed Great River Energy to work with this landowner on the alignment near the house to minimize impacts. The landowner has requested that the alignment be modified as shown in **Exhibit C**.

Great River Energy has reviewed the alternative and concluded it is constructible and reasonable. The property owner located to the south of Minor Alteration 2, who is affected by Structures 66 to 69, was consulted on this modification and is in agreement with the proposal. This alignment will have impacts similar to the original alignment except that the line would impact an additional approximately 1.5 acres of shrubby and forested wetland. The proposed new alignment would add approximately \$65,000 to Project costs.

### **Summary of Routing Factors**

The routing factors identified in Minnesota Rule 7850.4100 are discussed in **Table 1**. Detailed information comparing impacts between the proposed minor alteration alignments and the original alignments is provided in **Table 2**.

Table 1.	Routing	Factors
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Minn. R. 7850.4100					
A. Human settlement	Both minor alterations will result in decreased				
	impacts on residential property.				
B. Effects on public health and safety	No additional impacts on public health and safety				
	are anticipated for the proposed minor alterations.				
C. Effects on land-based economies	The original alignments both cross more				
	agricultural land than the proposed minor				
	alteration alignments (significantly more in the				
	Minor Alteration 1 area). Effects on forested lands				
	are similar. No effects on mining or tourism are				
	anticipated for any of the alignments.				
D. Effects on archaeological and historic	Cultural resources in the minor alteration areas				
resources	will be evaluated in spring 2016. No effects on				
	cultural resources are anticipated; however, if sites				
	are identified, Great River Energy will coordinate				
	with the U.S. Army Corps of Engineers and the				
	Minnesota State Historic Preservation Office.				
E. Natural environment	The minor alterations are not expected to increase				
	impacts to air quality, rivers, lakes, streams, flora				
	or fauna. Minor Alteration 1 will eliminate				
	potential impacts to a pond along the pipeline				
	corridor. The minor alterations will result in more				
	impacts to wetlands (approximately 2.4 additional				
	acres for Minor Alteration 1 and 1.5 additional				
	acres for Minor Alteration 2 – see <b>Table 2</b> ).				
F. Effects on rare and unique natural resources	No additional impacts on rare and unique natural				
	resources are anticipated for the proposed minor				
	alterations.				
G. Design options that maximize energy	Not applicable				
efficiencies, mitigate adverse environmental					
effects and accommodate expansion					
H. Use or paralleling of existing rights-of-way,	Minor Alteration 1 uses a combination of existing				
survey lines, natural division lines, and	transmission line ROW and a section line division				
agricultural field boundaries	(0.75 mile); the original alignment uses a				
	combination of existing transmission line ROW,				
	pipeline ROW and road ROW (0.68 mile).				
	Minor Alternation 2 utilizes the ut 040 fact of				
	Minor Alteration 2 utilizes about 810 feet of				
	agricultural field boundary; the original alignment utilizes about 562 feet of road ROW.				
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I. Use of existing large electric power generating	Not applicable				
plant sites					

J. Use of existing transmission line rights-of-way	Minor Alteration 1 would use about ½ mile more existing transmission ROW (following Great River Energy's 34.5 kV line) than the original alignment.		
	Minor Alteration 2 does not use existing		
	transmission line ROW, nor does the original		
	alignment in this area.		
K. Electrical system reliability	Both the minor alteration alignments and the		
	original alignments will enable reliable		
	transmission of electricity.		
L. Costs	Minor Alteration 1 is estimated to cost about		
	\$84,000 less than the original alignment.		
	Minor Alteration 2 is estimated to cost about		
	\$65,000 more than the original alignment.		

## Table 2. Minor Alterations/Original Alignments Resource Details<sup>a</sup>

	Units	Minor Alteration 1	Original Alignment	Minor Alteration 2	Original Alignment
Total Length	Feet	3960	3580	1860	1753
Length parallel to existing	Miles	0.75	0.68	0.35	0.33
ROWs, survey lines, natural	Feet	3960	3580	810	562
division lines, and ag field	Miles	0.75	0.68	0.15	0.11
boundaries	i i i i i i i i i i i i i i i i i i i	0.75	0.00	0.10	0.11
Use of existing transmission	Feet	2612	0	0	0
line ROW	Miles	0.49	0	0	0
Roads Crossed	Number	1	1	0	0
Parcels Crossed	Number	3	3	2	1
Residences within 150 feet of Transmission Line	Number	0	0	0	0
Wetlands Crossed	Number	2	1	1	0
Forested Land Impacted	Acres	1.3	1.2	0	0
Agricultural Land Impacted	Acres	0.1	2.9	1.7	1.8
Developed Land Impacted	Acres	0	0	0	0
Forested Wetlands Impacted	Acres	2.9	0.5	1.5	0
Open Land Impacted (Grassland)	Acres	2.7	3.2	1.1	1.0

<sup>a</sup>https://gisdata.mn.gov/dataset/biota-landcover-gap

## <u>Notice</u>

Great River Energy has developed a landowner list (**Exhibit D**) identifying those landowners within and immediately adjacent to the proposed ROW for the new alignments. They have been copied on this submittal.

## **Conclusion**

Great River Energy believes that neither of the proposed minor alterations significantly changes the impacts of the Project on humans or the environment and both should be approved. The minor alterations are similar in:

- Length
- Use of existing ROWs and other boundaries
- Roads and parcels crossed
- Proximity to residences
- Forested, developed and open lands impacted, and
- Cost

The minor alterations would impact more wetlands. In comparison, the original alignments impact more agricultural land, particularly in the Minor Alteration 1 area. The tradeoffs in impacts are appropriate to accommodate the landowners' requests to reduce impacts on their respective properties.

Great River Energy respectfully requests that the Commission approve these minor alteration requests.

Please contact me at (763) 445-5214 if you have any questions regarding this filing.

Sincerely,

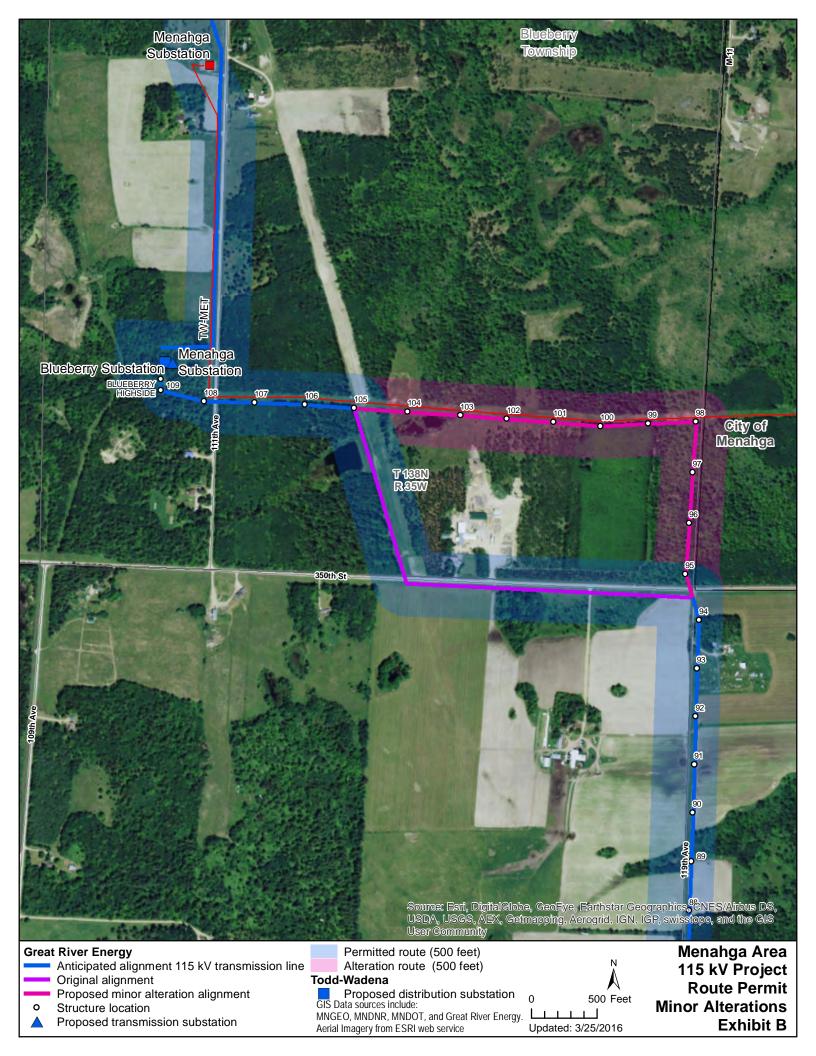
**GREAT RIVER ENERGY** 

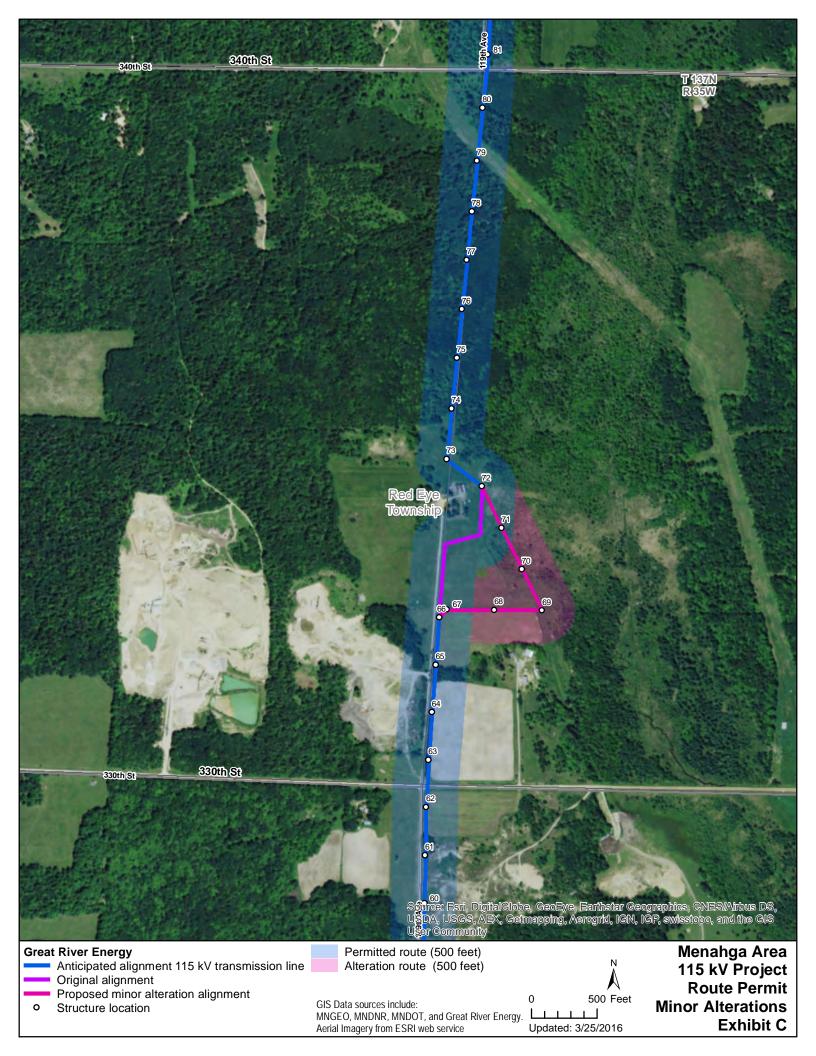
Carole L. Schmidt

Carole L. Schmidt Supervisor, Transmission Permitting and Compliance

Attachments: Exhibit A – Map Showing Minor Alteration Requests Exhibit B – Minor Alteration 1 Exhibit C – Minor Alteration 2 Exhibit D – Affected Landowner List







## EXHIBIT D

DANIEL R. & TIFFANY L. BESONEN 12038 330TH ST MENAHGA, MN 56464 BENJAMIN W. & KATHY M. OLSON 11498 310TH ST SEBEKA, MN 56477 BENJAMIN W & KATHY M OLSON 33388 119TH AVE MENAHGA, MN 56464

PETER, MARK & LYNN HENDRICKSON 11719 350TH ST MENAHGA, MN 56464 DURWIN J & LORI A TOMPERI 11508 350TH ST MENAHGA, MN 56464