

## Appendix A

Certificate of Need

Completeness Checklist

Appendix A  
Mankato – Mississippi River Transmission Project  
Certificate of Need and Route Permit Application  
E002/CN-22-532 and E002/TL-23-157

**Mankato – Mississippi River Transmission Project  
Certificate of Need Application  
Completeness Checklist**

AUTHORITY	REQUIRED INFORMATION	LOCATION IN APPLICATION
Minn. R. 7829.2500, subp. 2	Brief summary of filing on separate page sufficient to apprise potentially interested parties of its nature and general content	Filing Summary
Minn. R. 7849.0200, subp. 2	Title Page and Table of Contents	Title Page and Table of Contents
Minn. R. 7849.0200, subp. 4	Cover Letter	Cover Letter
Minn. R. 7849.0220, subp. 3	Joint Ownership and Multiparty use	§§ 1.1, 1.9
Minn. R. 7849.0240	Need summary and additional considerations	–
subp. 1	Summary of the major factors that justify the need for the proposed facility	§§ 1.2, 3.3, 4.1, 4.2, and 4.3
subp. 2	Relationship of the proposed facility to the following socioeconomic considerations:	–
A.	Socially beneficial uses of the output of the facility	§ 4.9
B.	Promotional activities that may have given rise to the demand for the facility	§ 4.7
C.	Effects of the facility in inducing future development	§ 4.8
Minn. R. 7849.0260	Proposed LHVTL and Alternatives	–
A.	A description of the type and general location of the proposed line, including:	–
(1)	Design voltage	§ 2.5
(2)	Number, sizes and types of conductors	§ 2.5.3

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(3)	Expected losses under projected maximum loading and under projected average loading in the length of the line and at terminals or substations	<b>EXEMPT</b> from providing line-specific loss information, provided alternative data is supplied.
	<b>ALTERNATIVE DATA</b> – Estimated overall system losses.	§ 4.4
(4)	Approximate length of the proposed line	§§ 1.1 and 6.4
(5)	Approximate locations of DC terminals or AC substations on a map	Map 1-1 and Appendix K
(6)	List of likely affected counties	§§ 1.1 and 6.4
B.	Discussion of the available alternatives including:	–
(1)	New generation	§ 5.2.6
(2)	Upgrading existing transmission lines	§ 5.2.2
(3)	Transmission lines with different voltages or conductor arrays	§ 5.1.1
(4)	Transmission lines with different terminals or substations	§§ 4.2.6 and 5.2.1, Appendix G
(5)	Double circuiting of existing transmission lines	§ 5.1.2
(6)	If facility for DC (AC) transmission, an AC (DC) transmission line	§ 5.2.3
(7)	If proposed facility is for overhead (underground) transmission, an underground (overhead) transmission line	§ 5.2.4
(8)	Any reasonable combination of alternatives (1) – (7)	Chapter 5, § 5.3, and Appendix G
C.	For the facility and for each alternative in B, a discussion of:	–
(1)	Total cost in current dollars	§§ 1.8 and 2.9.1

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(2)	Service life	§ 9.4
(3)	Estimated average annual availability	§ 9.5
(4)	Estimated annual O&M costs in current dollars	§ 9.4
(5)	Estimate of its effect on rates system wide and in Minnesota	§ 2.9.3 and Appendix J
(6)	Efficiency expressed for a transmission facility as the estimated losses under projected maximum loading and under projected average loading in the length of the transmission line and at the terminals or substations.	<b>EXEMPT</b> from providing line-specific loss information, provided alternative data is supplied.
	<b>ALTERNATIVE DATA</b> – Estimated overall system losses.	§ 4.4
(7)	Major assumptions made in subitems (1) – (6)	Chapters 2, 5, and 9
D.	A map (of appropriate scale) showing the applicant's system or load center to be served by the proposed LHVTL.	Map 1-1 and Appendix K
E.	Such other information about the proposed facility and each alternative as may be relevant to determination of need.	Chapters 3, 4, and 5
Minn. R. 7849.0270	Content of Forecast	–
Minn. R. 7849.0270, subp. 1	Peak demand and annual consumption data within the applicant's service area and system.	<b>EXEMPT</b> from providing specific forecasting and capacity information for the Applicants' systems, provided alternative data is supplied.
	<b>ALTERNATIVE DATA</b> – Forecast information used in analyzing the need for the Project.	§ 4.6 and Appendix G
Minn. R. 7849.0270, subp. 2 (A)-(D), and (F)	Subps. 2 (A)-(D), and (F) – Minnesota forecast data; forecast demand data by customer class, peak period, and month; estimated system annual revenue per kilowatt hour; estimated average weekday system load factor by month; and estimated average weekday load factor by month.	<b>EXEMPT</b> from providing specific forecasting and capacity information for the Applicant's systems, provided alternative data is supplied.  <i>See</i> Minn. R. 7849.0270, subp. 1

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Minn. R. 7849.0270, subp. 2 (E)	Estimated annual revenue requirement per kWh in current dollars	<b>EXEMPT</b> from providing annual revenue requirements for the project, provided alternative data is supplied.
	<b>ALTERNATIVE DATA</b> – Explanation of how the costs for LRTP projects are shared within the MISO footprint.	§ 2.9.3.1 and Appendix G
Minn. R. 7849.0270, subp. 3	Detail of the forecast methodology used in subp. 2.	<b>EXEMPT</b> from providing specific forecasting and capacity information for the Applicant's systems, provided alternative data is supplied.  <i>See</i> Minn. R. 7849.0270, subp. 1
Minn. R. 7849.0270, subp. 4	Discussion of the database used in current forecasting.	<b>EXEMPT</b> from providing specific forecasting and capacity information for the Applicant's systems, provided alternative data is supplied.  <i>See</i> Minn. R. 7849.0270, subp. 1
Minn. R. 7849.0270, subp. 5	Discussion of forecasting assumptions.	<b>EXEMPT</b> from providing specific forecasting and capacity information for the Applicant's systems, provided alternative data is supplied.  <i>See</i> Minn. R. 7849.0270, subp. 1
Minn. R. 7849.0270, subp. 6	Coordination of Forecasts	<b>EXEMPT</b> from providing specific forecasting and capacity information for the Applicant's systems, provided alternative data is supplied.  <i>See</i> Minn. R. 7849.0270, subp. 1
Minn. R. 7849.0280	System Capacity	—
Minn. R. 7849.0280, subp. A.	Power Planning Programs	Chapter 4 and Appendix G
Minn. R. 7849.0280, subps. (B)-(I)	System Capacity – description of the ability of the existing system to meet the demand forecast required by Minn. Rule 7849.0270.	<b>EXEMPT</b> from providing description of the ability of the existing system to meet the

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		demand forecast.
Minn. R. 7849.0290	Conservation programs and their effect on the forecast information required by Minn. Rule 7849.0270.	<b>EXEMPT</b> from discussing Applicants' conservation programs and their effect on the forecast, provided alternative data is supplied.
	<b>ALTERNATIVE DATA</b> – Information related either to Applicants' conservation programs or to the conservation programs that are available to their members serving load in Minnesota; information regarding how conservation and energy efficiency was considered by MISO in its evaluation of the Project.	§ 5.2.6.5 and Appendix I
Minn. R. 7849.0300	Consequence of Delay	<b>EXEMPT</b> from providing analysis using three levels of demand (three confidence levels), provided substitute information is supplied.
	<b>ALTERNATIVE DATA</b> – Discussion of the consequences of delay.	§ 5.4
Minn. R. 7849.0310	Required Environmental Information	Chapter 7
Minn. R. 7849.0330	Transmission Facilities	—
	Data for each alternative that would require LHVTL construction including:	—
A.	For overhead transmission lines	—
(1)	Schematics showing dimensions of support structures	§§ 2.5.1 and 2.5.2, Appendix H
(2)	Discussion of electric fields	§ 7.3.2.2
(3)	Discussion of ozone and nitrogen oxide emissions	§ 7.6.1
(4)	Discussion of radio and television interference	§ 7.3.10

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(5)	Discussion of audible noise	§ 7.3.3
B.	For underground transmission facilities:	N/A
(1)	Types and dimensions of cable systems	N/A
(2)	Types and qualities of cable system materials	N/A
(3)	Heat released in kW per foot of cable	N/A
C.	Estimated right-of-way required for the facility	§ 2.4
D.	Description of construction practices	§§ 9.2 and 9.3
E.	Description of O&M practices	§ 9.4
F.	Estimated workforce required for construction and O&M	§§ 7.3.5.1 and 9.4
G.	Description of region between endpoints in likely area for routes emphasizing a three-mile radius of endpoints including:	-
(1)	Hydrological features	§ 7.6.4
(2)	Vegetation and wildlife	§§ 7.6.5 and 7.6.6
(3)	Physiographic regions	§ 7.8
(4)	Land use types	§§ 7.2 and 7.3.1
Minn. R. 7849.0340	No-Facility Alternative	<b>EXEMPT</b> from providing analysis using three levels of demand (three confidence levels), provided substitute information is supplied.

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	<b>ALTERNATIVE DATA</b> – Discussion of the consequences of delay.	§ 5.4