

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	EXEMPT from providing line-specific loss information, provided alternative data is supplied.
	ALTERNATIVE DATA – 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.	EXEMPT from providing line-specific loss information, provided alternative data is supplied.
	ALTERNATIVE DATA – 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.	EXEMPT from providing specific forecasting and capacity information for the Applicants' systems, provided alternative data is supplied.
	ALTERNATIVE DATA – 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.	EXEMPT from providing specific forecasting and capacity information for the Applicant's systems, provided alternative data is supplied. <i>See Minn. R. 7849.0270, subp. 1</i>

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Minn. R. 7849.0270, subp. 2 (E)	Estimated annual revenue requirement per kWh in current dollars	EXEMPT from providing annual revenue requirements for the project, provided alternative data is supplied.
	ALTERNATIVE DATA – 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.	EXEMPT from providing specific forecasting and capacity information for the Applicant's systems, provided alternative data is supplied. <i>See Minn. R. 7849.0270, subp. 1</i>
Minn. R. 7849.0270, subp. 4	Discussion of the database used in current forecasting.	EXEMPT from providing specific forecasting and capacity information for the Applicant's systems, provided alternative data is supplied. <i>See Minn. R. 7849.0270, subp. 1</i>
Minn. R. 7849.0270, subp. 5	Discussion of forecasting assumptions.	EXEMPT from providing specific forecasting and capacity information for the Applicant's systems, provided alternative data is supplied. <i>See Minn. R. 7849.0270, subp. 1</i>
Minn. R. 7849.0270, subp. 6	Coordination of Forecasts	EXEMPT from providing specific forecasting and capacity information for the Applicant's systems, provided alternative data is supplied. <i>See Minn. R. 7849.0270, subp. 1</i>
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.	EXEMPT 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.	EXEMPT from discussing Applicants' conservation programs and their effect on the forecast, provided alternative data is supplied.
	ALTERNATIVE DATA – 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	EXEMPT from providing analysis using three levels of demand (three confidence levels), provided substitute information is supplied.
	ALTERNATIVE DATA – 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	EXEMPT from providing analysis using three levels of demand (three confidence levels), provided substitute information is supplied.

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	ALTERNATIVE DATA – Discussion of the consequences of delay.	§ 5.4