

Appendix A

Certificate of Need Application Completeness Checklist

COMPLETENESS CHECKLIST

AUTHORITY	REQUIRED INFORMATION	WHERE
Minn. R. 7849.0200, Subp. 2	Title Page	Title Page
Minn. R. 7849.0200, Subp. 2	Table of Contents	Table of Contents
Minn. R. 7849.0200, Subp. 4	Cover Letter	Cover Letter
Minn. R. 7849.0220, Subp. 3	Joint Ownership and Multiparty use	Section 1.4
Minn. R. 7849.240	Need summary and additional considerations	Chapter 1
Subp. 1	Summary of the major factors that justify the need for the proposed facility	Sections 1.3 and 1.6
Subp. 2	Relationship of the proposed facility to the following socioeconomic considerations:	Section 1.7
A.	Socially beneficial uses of the output of the facility	Section 1.7.1
B.	Promotional activities that may have given rise to the demand for the facility	Section 1.7.2
C.	Effects of the facility in inducing future development	Section 1.7.3
Minn. R. 7849.0260	Proposed LHVTL and Alternatives	–
A.	A description of the type and general location of the proposed line, including:	Chapters 1, 3, and 5
(1)	Design voltage	Chapter 1
(2)	Number, sizes and types of conductors	Section 5.2
(3)	Expected losses under projected maximum loading and under projected average loading in the length of the line and at terminals or substations	Table 6

AUTHORITY	REQUIRED INFORMATION	WHERE
(4)	Approximate length of the proposed line	Section 5.1
(5)	Approximate locations of DC terminals or AC substations on a map	Figure 27
(6)	List of likely affected counties	Executive Summary
B.	Discussion of the available alternatives including:	Chapter 4
(1)	New generation	Section 4.2.1
(2)	Upgrading existing transmission lines	Sections 4.1.3 and 4.1.4
(3)	Transmission lines with different voltages or conductor arrays	Sections 4.1.1 and 4.1.6
(4)	Transmission lines with different terminals or substations	Section 3.8
(5)	Double circuiting of existing transmission lines	Section 4.1.2
(6)	If facility for DC (AC) transmission, an AC (DC) transmission line	Section 4.1.5
(7)	If proposed facility is for overhead (underground) transmission, an underground (overhead) transmission line	Section 4.1.7
(8)	Any reasonable combination of alternatives (1) – (7)	Section 4.4
C.	For the facility and for each alternative in B, a discussion of:	–
(1)	Total cost in current dollars	Section 1.4; Table 5; Chapter 4
(2)	Service life	Section 4.2.1.1
(3)	Estimated average annual availability	Chapter 4; Section 4.2.1.1

AUTHORITY	REQUIRED INFORMATION	WHERE
(4)	Estimated annual O&M costs in current dollars	Section 1.4
(5)	Estimate of its effect on rates system wide and in Minnesota	Appendix C
(6)	Effeciency	Chapter 4
(7)	Major assumptions made in subitems (1) – (6)	Chapter 4
Minn. R. 7849.0270	Content of Forecast	–
Minn. R. 7849.0270, Subp. 1	Peak demand and annual consumption data	Appendix B; Appendix G
Minn. R. 7849.0270, Subp. 2	For each forecast year the following data:	Exempt
A.	Minnesota forecast data	Exempt
B.	Estimates of the number of ultimate consumers and annual electrical consumption by those consumers:	Exempt
(1)	Farm, excluding irrigation and drainage pumping	Exempt
(2)	Irrigation and drainage pumping	Exempt
(3)	Nonfarm residential	Exempt
(4)	Commercial	Exempt
(5)	Mining	Exempt
(6)	Industrial	Exempt
(7)	Street and highway lighting	Exempt

AUTHORITY	REQUIRED INFORMATION	WHERE
(8)	Electrified transportation ¹	Exempt
(9)	Other	Exempt
(10)	Sum of subitems (1) – (9)	Exempt
C.	Estimate of the demand for power in system at the time of annual system peak demand	Exempt
D.	System peak demand by month	Exempt
E.	Estimated annual revenue requirement per kWh in current dollars	Appendix C
F.	Estimated average weekday load factor by month	Exempt
Minn. R. 7849.0270, Subp. 3	Forecast Methodology	Exempt
	Detail of forecast methodology including:	Exempt
A.	Overall methodological framework used	Exempt
B.	Specific analytical techniques used	Exempt
C.	Manner in which specific techniques are related in producing the forecast	Exempt
D.	Where statistical techniques are used:	Exempt
(1)	Purpose of the technique	Exempt
(2)	Typical computations	Exempt

¹ Electrified transportation is included in the column labeled “other.”

AUTHORITY	REQUIRED INFORMATION	WHERE
(3)	Results of statistical tests	Exempt
E.	Forecast confidence levels for annual peak demand and annual electrical consumption	Exempt
F.	Brief analysis of methodology including:	Exempt
(1)	Stengths and weaknesses	Exempt
(2)	Suitability to the system	Exempt
(3)	Cost considerations	Exempt
(4)	Data requirements	Exempt
(5)	Past accuracy	Exempt
(6)	Other significant factors	Exempt
G.	Explanation of discrepancies	Exempt
Minn. R. 7849.0270, Subp. 4	Discussion of data base used for forecasts including:	Exempt
A.	List of data sets including a brief description of each	Exempt
B.	Identification of adjustments made to raw data including nature, reason and magnitude	Exempt
Minn. R. 7849.0270, Subp. 5	Assumptions and Special Information	Exempt
	Discussion of each essential assumption including need and nature of assumption and sensitivity of forecast results to assumptions	Exempt
	Discussion of assumptions regarding:	Exempt

AUTHORITY	REQUIRED INFORMATION	WHERE
A.	Availability of alternative sources of energy	Exempt
B.	Expected conversion from other fuels to electricity or vice versa	Exempt
C.	Future prices for customers and their effect on demand	Exempt
D.	Data requested in Subp. 2 not historically available or generated by applicant for demand forecast	Exempt
E.	Effect of energy conservation programs on long term demand	Exempt
F.	Other factors considered when preparing forecast	Exempt
Minn. R. 7849.0270, Subp. 6	Coordination of Forecasts with Other Systems	—
A.	Extent of coordination of load forecasts with those of other systems	Section 3.9; Appendix B
B.	Description of the manner in which those forecasts are coordinated	Section 3.9; Appendix B
Minn. R. 7849.0280	System Capacity	—
	Description of ability of existing system to meet demand forecast including:	—
A.	Power planning programs	Appendix B
B.	Seasonal firm purchases and sales	Exempt
C.	Seasonal participation purchases and sales	Exempt
D.	For each forecast year load and generating capacity for:	Exempt
(1)	Seasonal system demand	Exempt

AUTHORITY	REQUIRED INFORMATION	WHERE
(2)	Annual system demand	Exempt
(3)	Total seasonal firm purchases	Exempt
(4)	Total seasonal firm sales	Exempt
(5)	Seasonal adjusted net demand	Exempt
(6)	Annual adjusted net demand	Exempt
(7)	Net generating capacity	Exempt
(8)	Total participation purchases	Exempt
(9)	Total participation sales	Exempt
(10)	Adjusted net capability	Exempt
(11)	Net reserve capacity obligation	Exempt
(12)	Total firm capacity obligation	Exempt
(13)	Surplus or deficit capacity	Exempt
E.	Summer and winter season load generation and capacity in years subsequent to application contingent on proposed facility	Exempt
F.	Summer and winter season load generation and capacity including all projected purchases, sales and generation in years subsequent to application	Exempt
G.	List of proposed additions and retirements in generating capacity for each forecast year subsequent to application	Exempt
H.	Graph of monthly adjusted net demand and capability with difference between capability and maintenance outages plotted	Exempt

AUTHORITY	REQUIRED INFORMATION	WHERE
I.	Appropriateness and method of determining system reserve margins	Exempt
Minn. R. 7849.0290	Conservation Programs	Alternative DSM and Conservation Data
A.	Persons responsible for energy conservation and efficiency programs	Appendix D
B.	List of energy conservation and efficiency goals and objectives	Appendix D
C.	Description of programs considered, implemented and rejected	Appendix D
D.	Description of major accomplishments in conservation and efficiency	Appendix D
E.	Description of future plans with respect to conservation and efficiency	Appendix D
F.	Quantification of the manner by which these programs impact the forecast	Appendix D
Minn. R. 7849.0300	Consequence of Delay	Exempt from three confidence levels; Section 4.3
Minn. R. 7849.0310	Required Environmental Information	Chapter 8
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	Figures 28 and 29
(2)	Discussion of electric fields	Section 6.6.1
(3)	Discussion of ozone and nitrogen oxide emissions	Section 6.2

AUTHORITY	REQUIRED INFORMATION	WHERE
(4)	Discussion of radio and television interference	Section 6.4
(5)	Discussion of audible noise	Section 6.3
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	Section 5.3
D.	Description of construction practices	Section 7.3
E.	Description of O&M practices	Section 7.5
F.	Estimated workforce required for construction and O&M	Section 7.3
G.	Description of region between endpoints in likely area for routes emphasizing a three mile radius of endpoints including:	Chapter 8
(1)	Hydrological features	Section 8.6
(2)	Vegetation and wildlife	Section 8.7
(3)	Physiographic regions	Section 8.2
(4)	Land use types	Section 8.3
Minn. R. 7849.0340	No-Facility Alternative	Exempt from three confidence levels

AUTHORITY	REQUIRED INFORMATION	WHERE
	For each of the three levels of demand:	—
A.	Expected operation of existing and committed facilities	Section 4.3
B.	Description of the changes in resource requirements and waste produced including:	—
(1)	Amount of land required	Section 4.3
(2)	Induced traffic	Section 4.3
(3)	Fuel requirements	Section 4.3
(4)	Airborne emissions	Section 4.3
(5)	Water appropriation and consumption	Section 4.3
(6)	Discharges to water	Section 4.3
(7)	Reject heat	Section 4.3
(8)	Radioactive releases	Section 4.3
(9)	Solid waste production	Section 4.3
(10)	Audible noise	Section 4.3
(11)	Labor requirements	Section 4.3
C.	Description of possible methods of reducing environmental impact	Section 4.3
Minn. R. 7829.2500, Subp. 2	Single Page Summary for Interested Parties	Filing Summary

AUTHORITY	REQUIRED INFORMATION	WHERE
Exemption Order		
Exemption Order	In lieu of Minn. R. 7849.0260 A(3) and C(6) requiring line-specific loss information, Applicants will provide system loss information.	Table 6
Exemption Order	In lieu of Minn. R. 7849.0270, subp. 2 (A-D and F) and Subps. 3-5, requiring information regarding system peak, annual energy consumption, and load factors for applicant's service area and system, Applicants will provide data supporting the load serving needs of the substations serving the area served by the proposed Project, including information related to substation forecast methodology, databases, and assumptions.	Tables 2 and 3; Figures 14 and 15; Appendix B.1; Appendix G
Exemption Order	In lieu of Minn. R. 7849.0280, (B) through (I) requiring load and capability information, Applicants will provide information regarding reliability concerns resulting from forecasted peak demand in the local area.	Tables 2, 3 and 4; Appendix B.1
Exemption Order	In lieu of Minn. 7849.0290 requiring conservation information and impact of conservation on forecast data, Applicants will provide a discussion of demand management programs used by Applicants to manage peak load and how these programs affect the substation loads in the specific project area and a summary of the most recent filing made by Applicants pursuant to the Energy Conservation Improvement Statutes.	Section 4.2.2 Appendix D
Exemption Order	In lieu of Minn. R. 7849.0300 and 7849.0340, requiring detailed information regarding the consequences of delay and no facility alternative on three levels of demand and energy consumption, Applicants will identify the threshold level of demand that places service at risk and the incremental change in growth.	Sections 3.3, 3.4, and 4.3
Additional Information Requested by the Department of Commerce		
Exemption Order	Monthly numbers of customers, by class, served by each substation (both actual and proposed);	Appendix G.1
Exemption Order	Monthly energy consumption data for each individual customer served by each substation (both actual and proposed), subsequently aggregated by class;	Appendix G.2
Exemption Order	Any, and all, development plans within, and directly surrounding, the load study area (e.g., City of Plymouth master development plan, City of Medina master development plan);	Appendix F.1
Exemption Order	Number of building permits issued by building type, year, and respective permitting agency, within, and directly surrounding, the load study area over the last 10 years;	Appendix F.3

AUTHORITY	REQUIRED INFORMATION	WHERE
Exemption Order	Number of households, on an annual basis, within the load study area over the last 10 years;	Appendix F.4
Exemption Order	Total number of lots available for development, by zoning code and zoning authority, for the load study area and immediately adjacent area;	Appendix F.5
Exemption Order	Any, and all, demographic information projections for the load study and adjacent area as provided by the county, Metropolitan Council, and State Demographic Center;	Appendices F.6 and F.7
Exemption Order	List of customers participating in the Applicants' direct load control and/or load management program, by utility, served by each substation (actual and proposed);	Appendix D.3
Exemption Order	Monthly historical load control data served by each substation imputed to each Applicant's respective system peak forecast;	Appendix D.3
Exemption Order	List of customers, on an annual basis, that received Conservation Improvement Program (CIP) rebates, by type and Applicant, served by each substation over the last 10 years; and	Appendix D.3
Exemption Order	Any, and all, data used by the Applicants to predict future demand within the load study area.	Appendices B.1, B.2, and F

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