

Department of Commerce Office of Energy Security Information Request No. 47 (“OES IR No. 47”).

A.3. The combined substation demand forecast provided in the Application has not been accepted directly into any integrated resource plan. However, the substation demand forecasts provided by the individual utilities are based, in part, on resource planning data. See Applicants’ Response to OES IR No. 47

A.4. Unlike the southern Red River Valley area, a load adjustment factor was not used for the Alexandria area. This is because the Alexandria area is a very small geographic area. Generally speaking, smaller areas tend to peak more uniformly than larger, more diverse areas (such as the southern Red River Valley area).

A.5. The term “MW at Risk” approximates the number of megawatts of customer load that would need to be interrupted in order to return the system within operating limits assuming no new transmission facilities were constructed and the critical contingency in the area occurred during the year in question.

B. The maximum load level at which the Alexandria area transmission system can reliably operate has been determined to be 171 MW. If the Poleyard generator is run during peak load times, then the system can support 178.5 MW. More detail regarding this number can be found in the Application, beginning on page 4.27.

C. In the Alexandria area, the electrical system can reliably support 171 MW. At this level, the loss of the Grant County – Elbow Lake 115 kV line results in low voltages in the areas served by Elbow Lake and Brandon Substations when load reaches 171 MW. The Alexandria area’s peak load in 2006 was 157 MW. If the Alexandria area transmission system is not upgraded, the low voltage area will continue to grow, encompassing increasingly larger portions of the Alexandria area. The substation forecast analysis, provided in Appendix C-4 of the Application, indicates that the 171 MW demand level will be exceeded in approximately 2011.

Appendix C-4 was compiled by using substation forecasts provided by Xcel Energy, Great River Energy, Missouri River Energy Services and Otter Tail Power Company. The utilities’ substation forecasts took into account load management programs and conservation efforts used by the utilities to reduce peak demand.

D. Applicants do not have this information.

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