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Xcel Energy

Docket No.: EL17-032

Response To: South Dakota Public  
Utilities Commission

Data Request No. 1-1

Requestor: Lorena Reichert

Date Received: October 17, 2017

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Question:

Provide a list of all inputs and assumptions used in the model to determine the avoided energy costs. Also, provide the source/basis for each input/assumption and indicate any that are required by other jurisdictions.

Response:

Avoided energy costs contain the estimated system average incremental energy costs by seasonal peak and off-peak periods for each of the next five years. The system incremental energy costs is averaged during system daily on-peak and off-peak hours, for each season. The energy costs are increased by a factor of 50 % of the line losses.

The marginal energy cost forecast is updated annually, and is similar to that produced for the Resource Plan. The Resource Plan modeling inputs and information regarding source, context, and application are provided in Appendix J of the 2016-2030 Upper Midwest Resource Plan, which was provided to the SDPUC on January 5, 2015 in Docket EL09-009.

Avoided capacity cost inputs are provided in the Confidential version of this filing, Attachment 1, page 3 or 4. The formulas are also provided. The Company utilizes the cost of the next combustion turbine (CT) planned for the system. If there is no planned unit, values for a generic CT resource would be used.

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