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Xcel Energy

Docket No.:	EL18-023		
Response To:	South Dakota Public Utilities Commission	Data Request No.	1-1
Requestor:	South Dakota Public Utilities Commission Staff		
Date Received:	September 27, 2018		

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Question:

For the Peak and Energy Control program, please provide the number of hours interruptible load was called on in 2017 and how the energy savings associated with program were calculated.

Response:

The Peak and Energy Control program consists of two programs: (1) Peak Control Services and (2) Energy Control Services. The Company conducted a test event in 2017 to verify customer control for the Peak Control Services program. Energy Control Service customers were not controlled as part of this test since they are regularly required to provide control details to the Company and have been called more frequently than those on the Peak Control Services program. We note that our testing procedure did change in the summer of 2017 to conduct only "mock testing" to align with the rules under the Midcontinent Independent Systems Operator. "Mock testing" does not require an actual system control, but is similar to a communications review.

In 2017, the Peak Control Service program was called once for one hour. This event was conducted on the following date:

- February 2, 2017 – Peak Control Groups 1, 2, & 3 were called for one hour

The energy savings for the 2017 program were calculated using specific customer kW values customers pledge to shed during an event within their customer contract. These values are calculated off of incremental customer participation and do not include savings associated with historical participants (those beginning participation

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prior to 2017). Further, energy savings are not based on the control event conducted within this 2017 annual timeframe, rather the Company uses a historical average. We also take into account that MISO has the ability to control these programs up to 20 hours a year.

The 2017 value used a total of 17.70 hours per year. Therefore, the calculation is as follows (and can be seen on the 2017 cost-benefit analysis filed for this program):

Gross Annual kWh Saved at Customer = Gross kW Saved at Customer x 17.70 hours

(Where Gross kW Saved at Customer is the minimum load the customer pledges to shed during an event and can vary from site to site.)

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