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Xcel Energy

Docket No.: EL16-018

Response To: South Dakota Public
Utilities Commission

Data Request No. 1-4

Requestor: Darren Kearney

Date Received: September 7, 2016

Question:

For the Peak and Energy Control program, please provide the number of hours interruptible load was called on in 2015 and how the energy savings associated with program was calculated.

Response:

The Peak and Energy Control program consists of two programs: (1) Peak Control Services and (2) Energy Control Services. As explained in Docket EL15-014, the Company conducted a test event in 2015 (and subsequently in 2016) 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.

In 2015, the Peak Control Service program called two one-hour events. These events were conducted on the following days:

- July 17, 2015; the Peak Control Odd Group 2 was called for one hour; and
- July 24, 2015; the Peak Control Groups 1 & 3 were called for one hour.

The energy savings for our 2015 program year 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 prior to 2015). Further, energy savings are not based on control events conducted within this 2015 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 2015 value used a total of 24.789 hours per year. Therefore, the calculation is as follows:

$$\text{kWh Saved} = \text{Customer kW} \times 24.789 \text{ hours}$$

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

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