

OTTER TAIL POWER COMPANY

Docket No: EL21-015

Response to: SD Public Utilities Commission

Analyst: SD PUC Staff

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Date of Response: June 11, 2021

Responding Witness: Jason A. Grenier, Manager Market Planning - (218) 739-8639

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Data Request:

Refer to Table 4 of Appendix A. Explain why the lifetime energy savings percentage of goal differs from the year-one energy savings percentage of goal on Table 1 for the commercial custom and lighting programs.

Attachments: 1

Response:

The measures for the Commercial Lighting have various measure life's ranging from 8-16 years. For the proposed lifetime savings an average of 12 years was used for the measure life, however the actual 2020 average measure life is roughly 14.8 years. Therefore, when computing the percentage for 1 year the numerator and denominator are the same, however when computing the percentage based on the lifetime savings the numerator and denominator are different. This is what causes the percentages to be different between the lifetime savings and the year-one savings. For example,  $(\text{Actual Savings} * 1 \text{ year}) / (\text{Proposed Savings} * 1 \text{ year})$  does not equal  $(\text{Actual Savings} * 14.8 \text{ years}) / (\text{Proposed Savings} * 12 \text{ years})$ .

Similar to the Commercial Lighting, each Commercial Custom Efficiency Project measure has an actual measure life different than the average used in the proposed lifetime savings. In the proposed lifetime savings, an average of 15 years was used for the measure life, however the actual 2020 average measure life is approximately 11.8 years. Since each participants' measures are individually analyzed the actuals are used to calculate the lifetime savings instead of the average for this program. The total Commercial Custom Efficiency Project lifetime savings for 2020 is 2,755,354 kWh. An updated Appendix A, Table 4 is attached as Attachment 1 to DR SD-PUC-01.15 as this value was not updated in the original table.