

**BEFORE THE PUBLIC UTILITIES COMMISSION  
OF THE STATE OF SOUTH DAKOTA**

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**IN THE MATTER OF THE COMPLAINT  
OF ENERGY OF UTAH, LLC AND FALL  
RIVER SOLAR, LLC AGAINST BLACK HILLS  
POWER INC. DBA BLACK HILLS ENERGY  
FOR DETERMINATION OF AVOIDED COSTS**

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**EL18-038**

**REBUTTAL TESTIMONY**

**OF**

**JAMES MCMAHON**

**ON BEHALF OF**

**BLACK HILLS POWER, INC.  
D/B/A BLACK HILLS ENERGY**

**Date: January 30, 2020**

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1 **I. INTRODUCTION**

2 **Q. PLEASE STATE YOUR NAME, EMPLOYER, AND TITLE.**

3 A. My name is James McMahon. I am a Vice President at Charles River Associates  
4 (“CRA”) in the energy practice.

5 **Q. ARE YOU THE SAME JIM MCMAHON WHO FILED A DIRECT TESTIMONY**  
6 **FOR THIS REGULATORY PROCEEDING ON MAY 7, 2019?**

7 A. Yes.

8 **Q. WHAT IS THE PURPOSE OF YOUR REBUTTAL TESTIMONY?**

9 A. In this rebuttal testimony, I respond to points made by Staff Witness Mr. Darren Kearney  
10 in his direct testimony regarding the appropriate method for determining avoided costs of  
11 Qualifying Facility (“QF”) contracts in South Dakota. I also provide my understanding of  
12 Black Hills’ June 2019 update to the avoided cost calculation and respond to concerns  
13 raised by Mr. Kearney surrounding the underlying inputs to Black Hills Power’s (“Black  
14 Hills”) avoided cost calculation, specifically the load forecast energy growth rate and the  
15 inflation rate.

16 **II. BLACK HILLS’ JUNE 2019 AVOIDED COST CALCULATION**

17 **Q. IN YOUR DIRECT TESTIMONY<sup>1</sup>, YOU INDICATED THAT YOU HAD BEEN**  
18 **MADE AWARE THAT BLACK HILLS WAS PLANNING TO UPDATE ITS**  
19 **AVOIDED COST CALCULATION, CORRECT?**

20 A. Yes, that is correct.

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<sup>1</sup> Direct Testimony of James McMahon, p9.

1    **Q.    CAN YOU EXPLAIN WHAT CHANGED IN BLACK HILLS' AVOIDED COST**  
2       **CALCULATION THAT INCREASED THE AVOIDED COST CALCULATION**  
3       **FROM \$24.95 TO \$28.30/MWh?**

4    A.    Yes, Black Hills applied an inflation adjustment to ABB's forecasted energy and  
5        purchased power costs. Black Hills also adjusted the discount rate to reflect the settled  
6        rate of 7.76% in Docket No. EL14-026.

7    **Q.    HAVE YOU REVIEWED BLACK HILLS' ADJUSTMENTS AND THE REVISION**  
8       **TO THE AVOIDED COST RATE, AND DO YOU AGREE THAT THEY WERE**  
9       **PROPERLY MADE?**

10   A.    Yes, I have reviewed how Black Hills adjusted power costs to include inflation. I've also  
11        reviewed how Black Hills modified the discount rate and the impact this had on the  
12        avoided cost. I believe these adjustments were made correctly.

13                            **III.    AVOIDED CAPACITY COSTS**

14   **Q.    DOES MR. KEARNEY AGREE WITH BLACK HILLS' METHODOLOGY FOR**  
15       **DETERMINING THE CAPACITY VALUE OF THE FALL RIVER CONTRACT?**

16   A.    No. Mr. Kearney proposes a capacity price that is significantly higher than the price  
17        proposed by Black Hills.

18   **Q.    WHAT CAPACITY PRICE DOES MR. KEARNEY PROPOSE BE USED FOR**  
19       **DETERMINING THE CAPACITY VALUE OF FALL RIVER?**

20   A.    Mr. Kearney proposes a levelized capacity price that is based on the annualized cost of a  
21        new simple cycle peaking plant.

1 **Q. WHY IN MR. KEARNEY'S OPINION IS IT APPROPRIATE TO USE THE PRICE**  
2 **OF A SIMPLE CYCLE TURBINE AS A PROXY FOR FALL RIVER'S CAPACITY**  
3 **VALUE?**

4 A. In his direct testimony, Mr. Kearney states that a simple cycle peaking plant is generally  
5 regarded as the avoided capacity cost in resource planning. Mr. Kearney also references  
6 that the Commission in EL16-021 found that a simple cycle gas plant would be the next  
7 resource the utility could avoid<sup>2</sup>.

8 **Q. DO YOU AGREE WITH MR. KEARNEY THAT A SIMPLE CYCLE PEAKING**  
9 **PLANT IS GENERALLY REGARDED AS THE AVOIDED CAPACITY COST IN**  
10 **RESOURCE PLANNING?**

11 A. Only to the extent Mr. Kearney is referring to the cost of the next *new* resource that a utility  
12 would need to build or procure do I agree that a simple cycle peaking plant is generally the  
13 least cost new capacity addition in resource planning. In my experience, a new simple  
14 cycle gas-fired plant tends to be a lower capacity cost option than constructing or procuring  
15 new coal, gas combined cycle, nuclear, wind, and solar.

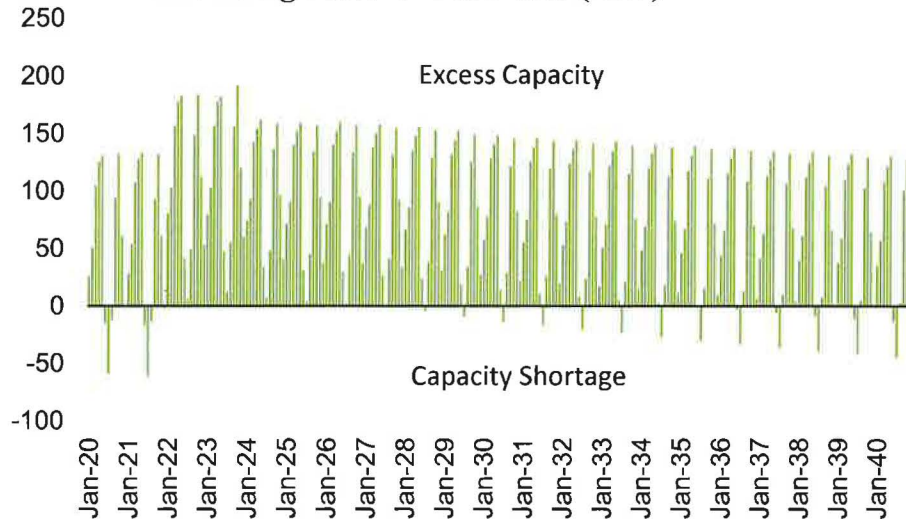
16 **Q. WHY SHOULD BLACK HILLS NOT USE THE COST OF A NEW RESOURCE**  
17 **AS THE PROXY FOR THE CAPACITY COST THE COMPANY WOULD AVOID**  
18 **WITH FALL RIVER?**

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<sup>2</sup> Direct Testimony of Darren Kearney, p32.

1 A. Black Hills' forecasted load-resource balance does not support the need for a new resource  
2 over the next 20 years. In fact, in half of the next 10 years, the company expects to be in  
3 a capacity surplus situation.

4 **Black Hills Monthly Forecast Capacity Position 2020-2040,**  
5 **Excluding Seasonal Purchases (MW)<sup>3</sup>**



6  
7  
8 Under its resource planning parameters, the company's practice has been to meet capacity  
9 shortages up to 50 MW by procuring firm 6x16 bilateral energy contracts in 25 MW blocks  
10 in the months in which the company expects to be short<sup>4</sup>. Because Black Hills is not short  
11 capacity in a substantial number of the forecast years, and because Black Hills only  
12 procures seasonal firm energy in the one month per year when it expects to be short, it is  
13 cost effective for Black Hills to procure bilateral energy contracts for short-term periodic  
14 capacity shortages rather than build a new plant.

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<sup>3</sup> Source: Black Hills

<sup>4</sup> See Rebuttal Testimony of Kyle White, p8-9.

1 **Q. HOW MUCH DO YOU BELIEVE BLACK HILLS SAVES ITS CUSTOMERS**  
2 **TODAY BY NOT BUILDING A NEW PLANT TO MEET ITS PROJECTED**  
3 **CAPACITY NEEDS?**

4 A. If Black Hills were to build a new 40 MW gas-fired plant, such as an LMS 6000, it could  
5 cost approximately \$88/kW-year on a levelized basis<sup>5</sup>. If the asset were operated strictly  
6 as a capacity resource (available, but not used to produce energy), the cost of the asset to  
7 Black Hills customers through 2040 would be approximately \$3.7 million per year, or \$74  
8 million over 20 years. Black Hills has estimated that the seasonal firm purchases over the  
9 same period are \$6 million, a \$68 million difference.

10 **Q. BLACK HILLS WITNESS KYLE WHITE STATES<sup>6</sup> THAT A RESOURCE**  
11 **ADDITION WOULD BE CONSIDERED AND RECOMMENDED WHEN THE**  
12 **COMPANY BELIEVED THAT CUSTOMERS WERE UNREASONABLY**  
13 **EXPOSED TO THE MARKET. DO YOU AGREE WITH THIS RESOURCE**  
14 **PLANNING PRINCIPLE?**

15 A. Yes. In my experience, most utilities would prefer to build or procure resources to meet  
16 their peak energy requirements and limit market exposure for their customers. However,  
17 this interest must be balanced with an interest in minimizing customer costs.

18 **Q. DO YOU BELIEVE BLACK HILLS' APPROACH TO PROCURING FIRM**  
19 **ENERGY TO MEET A CAPACITY REQUIREMENT UP TO 50 MW IS**  
20 **REASONABLE?**

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<sup>5</sup> See Direct Testimony of Darren Kearney, p36

<sup>6</sup> Black Hills response to Staff Data Request 3-5

1 A. Yes. I agree with Mr. White's assertion that it is "more effective to buy firm energy for  
2 six weeks than to add a resource customer pay for year-round"<sup>7</sup>. Also, I believe that 50  
3 MW is a reasonable breakpoint given my understanding that seasonal bilateral contracts  
4 are typically purchased in 25 MW increments.

5 **Q. HOW DO YOU RESPOND TO MR. KEARNEY'S STATEMENT<sup>8</sup> IN HIS DIRECT**  
6 **TESTIMONY THAT ONE OF THE REASONS HE PROPOSES A NEW**  
7 **RESOURCE FOR THE CAPACITY PRICE PROXY IS THAT HE IS "NOT**  
8 **ENTIRELY CONVINCED" THAT BLACK HILLS WILL NOT CONSTRUCT A**  
9 **NEW RESOURCE OVER THE NEXT 20 YEARS?**

10 A. I cannot reconcile Mr. Kearney's statement above with his statement, also in direct  
11 testimony, that Black Hills' forecasted peak load growth rate of 0.8% per annum "did not  
12 raise any red flags for me as this is comparable to peak demand forecasts for other electric  
13 utilities."<sup>9</sup> Black Hills based its avoided cost estimate on its forecasted capacity balance,  
14 which reflects its current view on peak load growth against committed energy resources  
15 which are known today. Fall River is asking the Commission to order Black Hills to enter  
16 a long-term contract with the developer that will guarantee Fall River a fixed payment for  
17 capacity and energy for the next 20 years. While there is always the possibility that peak  
18 load will grow faster than expected, that uncertainty alone does not justify requiring a  
19 significantly higher capacity payment to Fall River for bringing a physical capacity  
20 resource where none is forecast to be needed.

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<sup>7</sup> Deposition of Kyle White, p193

<sup>8</sup> Direct Testimony of Darren Kearney, p32

<sup>9</sup> Id. At 17



1 **Q. MR. KEARNEY CITES EL16-021 IN HIS DIRECT TESTIMONY TO SUPPORT**  
2 **HIS VIEW THAT BLACK HILLS' APPROACH FOR PRICING AVOIDED**  
3 **CAPACITY SHOULD BE REJECTED. DO YOU AGREE WITH HIS**  
4 **INTERPRETATION?**

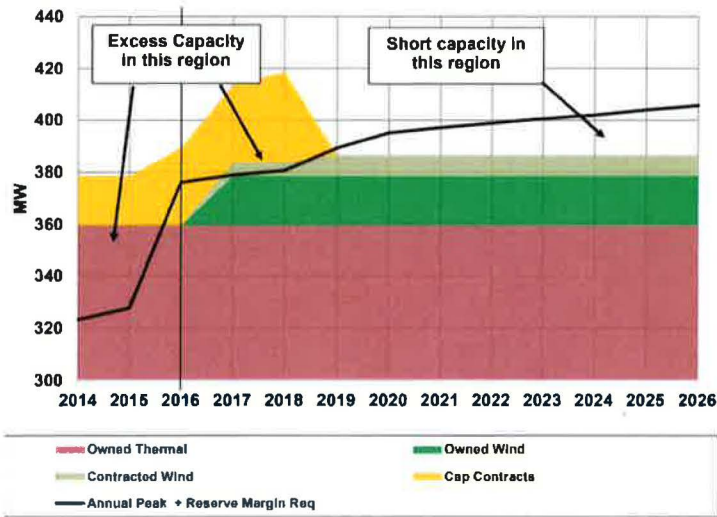
5 A. No, I believe Black Hills' situation is distinct from the situation with NorthWestern Energy,  
6 the utility involved in EL16-021. In EL16-021, the Commission found that NorthWestern  
7 Energy's avoided capacity cost should reflect the cost of a new simple cycle peaking plant  
8 in 2019 because that is the first year that NorthWestern forecasts a capacity need.  
9 Commission finding of fact number 38 states,

10 *"... NorthWestern has a need for capacity starting in 2019, and capacity*  
11 *payments for [ConEdison Development] shall reflect 2019 as the beginning*  
12 *date for determining levelized capacity payment obligations. NWE Exhibit*  
13 *1 at 15: 17-20; CED Exhibit 2 at 39; and Staff Exhibit 2 at 28:5-6. The*  
14 *Commission further finds that the appropriate avoided capacity cost shall*  
15 *be based on the cost of a new simple cycle peaking plant. Staff Exhibit 2 at*  
16 *28:6-8."*

17 NorthWestern Energy's 2016 IRP shows that the company was forecasting a capacity gap  
18 to emerge in 2019, then grow in the future.

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### NorthWestern Energy Capacity Requirements Forecast 2016-2026<sup>10</sup>



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Black Hills is distinguishable from NorthWestern Energy because Black Hills is not forecasting a sustained capacity gap. As I stated earlier, Black Hills' capacity position fluctuates between shortage and surplus in the first 10 years of the forecast. Black Hills has found it cost effective to manage supply gaps of this nature with seasonal bilateral firm energy purchases.

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#### IV. BLACK HILLS' AVOIDED CAPACITY COST CALCULATION

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**Q. ASIDE FROM RECOMMENDING BLACK HILLS USE THE COST OF A NEW PEAKER TO CALCULATE AVOIDED CAPACITY COSTS, WHAT OTHER CONCERNS DOES MR. KEARNEY RAISE REGARDING BLACK HILLS' CAPACITY COST CALCULATION?**

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<sup>10</sup> Source: Northwestern Energy 2016 IRP, Figure 5-8

1 A. Mr. Kearney indicates his main concern with how Black Hills determined avoided capacity  
2 cost is that he has “no way to verify that a 20% premium on market price is reflective of  
3 what capacity will cost in later years of the model.”<sup>11</sup>”

4 **Q. HOW DO YOU RESPOND TO MR. KEARNEY’S CONCERN?**

5 A. First, I disagree with Mr. Kearney’s characterization of Black Hills’ methodology for  
6 determining avoided capacity costs. Mr. Kearney implies that capacity value is reflected  
7 only in the market price premium that Black Hills assumed in its modeling. This is  
8 incorrect. Black Hills is using seasonal on-peak energy purchases in lieu of building or  
9 buying capacity. Black Hills has found that this is a less costly alternative for customers.

10 Second, applying a 20% premium to forecast Palo Verde market prices for firming  
11 purposes is a practice that Black Hills’ resource planning department uses in preparing  
12 IRPs and internal budgets<sup>12</sup>. Although Black Hills tends to transact bilaterally with utilities  
13 and other regional trading partners, Palo Verde is a liquid traded hub frequently used to  
14 index contracts.

15 To evaluate whether it was reasonable for Black Hills to forecast seasonal firm on-  
16 peak energy purchases at the Palo Verde plus 20% price, I reviewed Black Hills’ historic  
17 seasonal energy purchase prices compared to actual prices at Palo Verde in 2017 and 2018.  
18 I found that Black Hills had in fact transacted for firm peaking energy at a substantial  
19 discount to Palo Verde. Thus, in assuming a 20% premium to Palo Verde for purposes of

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<sup>11</sup> Direct Testimony of Darren Kearney, p28

<sup>12</sup> Black Hills response to Staff Data Request 1-15

1 costing avoided capacity for Fall River, I find that Black Hills is being especially  
2 conservative.

3 **Q. WHAT IS YOUR CONCLUSION REGARDING BLACK HILLS' USE OF A 20%  
4 PREMIUM FOR PURPOSES OF COSTING AVOIDED CAPACITY?**

5 A. I believe it was conservative assumption, given the history of bilateral seasonal purchase  
6 costs against Palo Verde traded prices.

7 **V. INFLATION RATE ASSUMPTIONS**

8 **Q. DOES MR. KEARNEY RAISE ANY CONCERNS WITH RESPECT TO THE  
9 INFLATION RATE USED BY BLACK HILLS TO CALCULATE AVOIDED  
10 COSTS?**

11 A. Yes, Mr. Kearney indicates that Black Hills needs to better support its inflation rate  
12 assumption of 1.5%, although he agrees this was the standard corporate rate used by the  
13 company.

14 **Q. HAS BLACK HILLS PROVIDED ANY SUPPLEMENTAL INFORMATION TO  
15 STAFF REGARDING THE BASIS FOR ITS INFLATION RATE?**

16 A. Yes. In response to Staff 3-9, Black Hills provided a table showing the Bureau of Labor  
17 Statistics PPI Commodity Data average annual inflation rate between 2014 and 2019. The  
18 average rate for this period was 1.5%.

19 **Q. IS THIS A REASONABLE APPROACH TO FORECASTING INFLATION FOR  
20 POWER AND RELATED COSTS?**

21 A. Yes, I believe this is a reasonable approach. First, this is the approach the company had  
22 used corporately and not specific to this proceeding. Second, in reviewing the data, I  
23 observe that if Black Hills were to extend the PPI commodity data set used to estimate the

1 inflation rate back another 1 or 2 years to 2013 or 2012, this would lower the estimate  
2 further. The growth rate from 2012 to 2013 was 0.9% while the growth rate from 2011 to  
3 2012 was 1.7%.

4 **Q. IF THE COMMISSION WERE TO ADJUST THE INFLATION RATE USED IN**  
5 **BLACK HILLS' AVOIDED COST CALCULATION, WHAT OTHER**  
6 **ADJUSTMENTS WOULD NEED TO BE MADE FOR CONSISTENCY?**

7 A. The weighted average cost of capital used to discount future costs incorporates inflation in  
8 both the cost of debt and cost of equity. If the Commission were to adjust the inflation rate  
9 upward from 1.5%, a companion adjustment upward to the weighted average cost of capital  
10 would likely be appropriate for discounting.

11 **VI. ACCREDITED CAPACITY FOR THE FALL RIVER PROJECT**

12 **Q. IN YOUR DIRECT TESTIMONY, YOU ALSO INDICATED THAT FROM YOUR**  
13 **RESEARCH THAT BLACK HILLS' ASSUMPTION WAS ON THE HIGH END**  
14 **FOR SOLAR RESOURCES IN MARKETS LIKE MISO AND PJM, WHERE YOU**  
15 **OBSERVED VALUES CLOSER TO 50%, CORRECT.**

16 A. Yes, that is correct.

17 **Q. MR. KEARNEY RECOMMENDS IN HIS DIRECT TESTIMONY USING 50%**  
18 **ACCREDITATION FOR FALL RIVER. DO YOU HAVE ANY OBJECTIONS TO**  
19 **HIS PROPOSAL?**

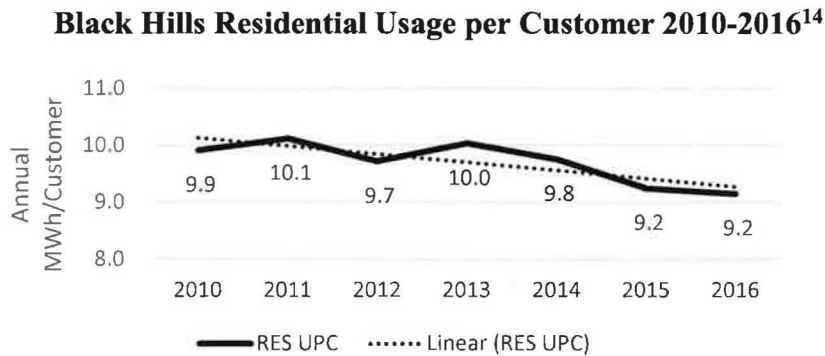
20 A. No, that value is consistent with what has been observed in other markets. Also, in my  
21 recent experience, I am observing pressure on the amount solar resources are able to  
22 contribute to peak reduction where system peaks are shifting to later in the day. This is a  
23 function of increased distributed generation that is reducing traditional peak hour loads.

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**VII. LOAD FORECAST**

**Q. MR. KEARNEY INDICATES THAT HE WAS SURPRISED BY BLACK HILLS' RELATIVELY FLAT ENERGY FORECAST. BASED ON YOUR REVIEW, WHAT FACTORS ARE CONTRIBUTING TO BLACK HILLS' FORECAST BEING LOWER THAN THE 2011 FORECAST MR. KEARNEY CITES?**

A. One factor contributing to Black Hills' flat energy forecast is a decreasing forecast of usage per customer. The graphic below shows Black Hills' actual usage per customer fell 8% between 2010 and 2016<sup>13</sup>.



This is consistent with what I have observed in my work in other parts of the country where even non-programmatic energy efficiency (e.g., consumers changing light bulbs to LEDs without direct incentives) has significantly reduced usage per customer. From my discussions with Black Hills' staff, I also understand that the company's service territory

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<sup>13</sup> At the time the 2018 forecast was completed, the most recent historical data available was 2016. The forecast was completed in 2017.

<sup>14</sup> Source: Black Hills

1 is becoming increasingly concentrated, with the housing stock shifting toward newer,  
2 smaller homes. This would also explain reductions in usage per customer.

3 **Q. DOES MR. KEARNEY RAISE ANY SPECIFIC CONCERNS WITH BLACK**  
4 **HILLS' LOAD FORECASTING APPROACH?**

5 A. No, not specifically. However, he does indicate that he wants to understand better the  
6 company's weather normalized econometric forecasting approach.

7 **Q. DO YOU HAVE DIRECT EXPERIENCE IN UTILITY LOAD FORECASTING?**

8 A. Over my career, I have led numerous resource planning engagements for U.S. utilities that  
9 have required my team to review and incorporate utility load forecasts into portfolio  
10 analysis. In addition, I have led several utility diligence engagements that required my  
11 team to produce bottom-up energy and peak demand forecasts.

12 **Q. IS BLACK HILLS' APPROACH TO DEVELOPING ITS LOAD FORECAST**  
13 **CONSISTENT WITH OTHER UTILITIES WITH WHOM YOU'VE WORKED?**

14 A. Yes, the approach is nearly identical. Black Hills runs econometric analysis to identify  
15 how macroeconomic variables (e.g., GDP, income), weather, and historic trends explain  
16 historic monthly customer growth and usage per customer. Energy is then forecast using  
17 an equation derived from these historic relationships and forecasts of independent  
18 variables. The resulting energy forecast is usually adjusted by a forecast of programmatic  
19 energy efficiency and other one-off adjustments.

20 **Q. BLACK HILLS WITNESS AMANDA THAMES INDICATES THAT THE**  
21 **COMPANY USES STATA FOR CONDUCTING ITS ECONOMETRIC**  
22 **ANALYSIS. ARE YOU FAMILIAR WITH THIS SOFTWARE AND IS THIS**  
23 **INDUSTRY BEST PRACTICE?**

1 A. Yes, I am familiar with the software. Stata is a widely recognized statistical software for  
2 econometric regression analysis and it has been commonly used by the utilities to forecast  
3 load.

4 **Q. DOES THIS CONCLUDE YOUR TESTIMONY?**

5 A. Yes.

6 **Q: DO YOU ANTICIPATE HAVING ANY FURTHER OPINIONS?**

7 A: The answer to this question largely depends on the nature of Fall River's rebuttal testimony.  
8 In their pre-filed testimony both Mr. Vrba and Mr. Klein reserved the right to change their  
9 positions, testimony and even avoided cost methodology. If that occurs, I might well have  
10 additional testimony and opinion and reserve the right to supplement on that basis.



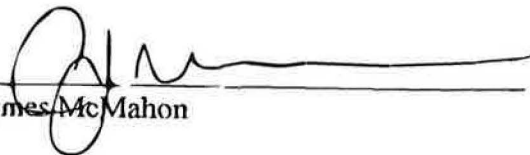
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EL18-038


STATE OF District of Columbia )  
COUNTY OF District of Columbia )SS

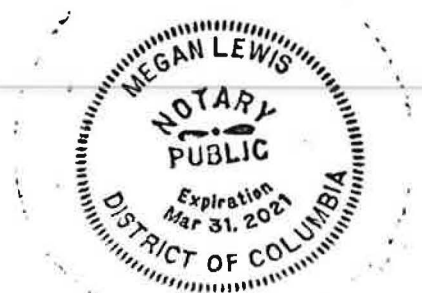
I, James McMahon, being first duly sworn, on oath state that I am a Vice President at Charles River Associates and whose Rebuttal Testimony was prepared by me or under my supervision. I am providing this testimony on behalf of Black Hills Power, Inc. d/b/a Black Hills Energy, and certify that the contents of the enclosed Rebuttal and Supplemental Testimony is true and correct to the best of my knowledge, information, and belief.

  
James McMahon

Subscribed and sworn to before me this 30<sup>th</sup> day of January, 2020.

Notary Public   
My Commission Expires 3/31/21

DISTRICT OF COLUMBIA: SS  
SUBSCRIBED AND SWORN TO BEFORE ME  
THIS 30<sup>th</sup> DAY OF January, 2020  
  
NOTARY PUBLIC  
My Commission Expires 3/31/21



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AVOIDED COSTS**

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**CERTIFICATE OF SERVICE**

**EL18-038**

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I hereby certify that on the 30<sup>th</sup> day of January, 2020, I served the foregoing, Rebuttal Testimony of James McMahon on Behalf of Black Hills Power, Inc. d/b/a Black Hills Energy, via electronic mail to the following:

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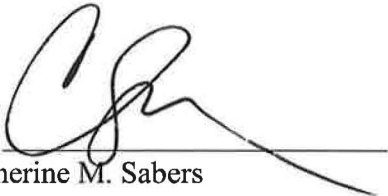
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