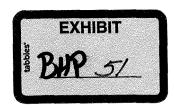
# Before the South Dakota Public Utilities Commission of the State of South Dakota

In the Matter of the Application of Black Hills Power, Inc., a South Dakota Corporation

For Authority to Increase Rates in South Dakota

Docket No. EL09-\_\_\_

September 29, 2009



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# I. <u>INTRODUCTION AND QUALIFICATIONS</u>

- 1 Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.
- 2 A. Kyle D. White, 625 Ninth Street, P.O. Box 1400, Rapid City, South Dakota,
- 3 57701.
- 4 O. BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?
- 5 A. I am Vice President of Regulatory and Governmental Affairs for Black Hills
- 6 Corporation.
- 7 Q. FOR WHOM ARE YOU TESTIFYING ON BEHALF TODAY?
- 8 A. I am testifying on behalf of Black Hills Power, Inc. ("Black Hills Power" or
- 9 "Company").
- 10 Q. PLEASE DESCRIBE YOUR EDUCATIONAL AND BUSINESS
- 11 BACKGROUND.
- 12 A. I graduated with honors from the University of South Dakota in 1982 with a
- Bachelor of Science degree in Business Administration, majoring in management.
- In 1989 I graduated with a Masters degree in Business Administration, also from
- the University of South Dakota. I have been employed by Black Hills Corporation
- in rate-related and marketing-related work since 1982 and have been in my present
- position since July 2008. For much of my career, I was responsible for the
- preparation of Black Hills Power's rate studies and filings. In addition to on-the-
- 19 job training in utility rate making, I have attended numerous seminars, trade
- 20 association meetings, and regulatory conferences covering a variety of subjects
- 21 including utility rate-making principles.

In addition, I am Vice Chair and a founding board member of both the South 2 Dakota Energy Infrastructure Authority and the Wyoming Infrastructure Authority 3 whose purpose is to increase opportunities for generation development by 4 increasing transmission capabilities within each state. 5

#### II. **PURPOSE OF TESTIMONY**

#### WHAT IS THE PURPOSE OF YOUR TESTIMONY? 6 Q.

7 A. To review and provide additional support for the key components of the rate application presented by Black Hills Power. 8

#### III. **BASE LOAD GENERATION**

#### 10 WHAT ARE THE KEY COMPONENTS OF THIS RATE APPLICATION? Q.

11 A. The primary component of this rate application is the inclusion of Wygen III into 12 rate base. In addition, the Company is proposing some changes and clarifications to certain tariff sheets identified below. 13

#### DO UTILITIES GO THROUGH BUSINESS CYCLES THAT IMPACT 14 Q.

#### THEIR RATES? 15

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Yes. As demand for electricity grows, so too does the need for distribution plant, transmission plant, peaking generation and base load generation. In fact, Black Hills Power is just completing one of these cycles. In the summer of 1995 Black Hills Power completed the 80 MW Neil Simpson Unit #2 power plant. Since then the utility has added 12,175 customers and its peak demand increased from 279 MW to 430 MW. In order to meet this growth, the utility made improvements to its transmission system, including an AC-DC-AC Tie, and constructed two 40

- 1 MW natural gas-fired combustion turbines. We are now completing the cycle 2 with the expected completion of Wygen III in the first quarter of 2010.
- 3 Q. WAS THE DECISION TO CONSTRUCT WYGEN III BASED SOLELY
- 4 ON THIS IDEA THAT BASE LOAD RESOURCES WERE NEXT UP TO
- 5 COMPLETE THE BUSINESS CYCLE?

- A. No. The process that led to the decision to construct Wygen III was much more involved and sophisticated than that. As explained in more detail in Jill Tietjen's testimony, there were several steps that were required before the decision to construct Wygen III was made.
  - Black Hills Power first completed an Integrated Resource Plan ("IRP") that evaluated resource alternatives for meeting anticipated customer electricity requirements over a 20 year planning horizon. The result of the planning effort was that the construction of mine-mouth coal-fired generation was the best and most economical solution for Black Hills Power to meet the electricity requirements of its customers and maintain reliability levels. Accordingly, Black Hills Power, after due consideration and analysis, approval of a Certificate of Public Convenience and Necessity (CPCN) from the Public Service Commission of Wyoming (Wyoming PSC) and the approval of its Board of Directors, commenced construction of Wygen III in March 2008.

- 1 Q. ARE THERE BASELOAD RESOURCE ALTERNATIVES TO COAL-
- 2 FIRED GENERATION?
- 3 A. Yes. Natural gas, nuclear and hydro may all be used to meet baseload power
- 4 requirements.
- 5 Q. IN YOUR OPINION, WOULD THESE HAVE BEEN GOOD RESOURCES
- 6 FOR MEETING THE BASELOAD POWER REQUIREMENTS MET BY
- 7 WYGEN III?
- 8 A. No. Only natural gas-fired generation could be constructed within the timeframe
- 9 identified in the IRP for the next base load resource. Natural gas-fired generation
- has attractive construction time frames and capital costs, but natural gas fuel costs
- are higher and more volatile than mine-mouth coal. While there are significant up
- front costs associated with Wygen III, customers will benefit from a long-term
- generation asset that has a cost that depreciates over the life of the plant. A coal-
- fired generation plant was the lowest long-term cost option. The addition of
- Wygen III further insulates customers from the volatile energy markets and
- Wygen III provides future price stability at a competitive cost. The IRP confirms
- that the overall costs to customers will be lower with Wygen III than any other
- generation asset addition considered, including long-term purchased power.
- 19 Q. ARE THERE BENEFITS TO RATE BASING GENERATION?
- 20 A. Yes. By rate basing generation, customers get the benefit of a cap on the rate base
- 21 included in rates for the portion of their power supply met with this generation. In
- fact, rate base will decline over time as accumulated depreciation grows. This

annual reduction to rate base from depreciation also allows the utility to invest in 2 new plant (rate base) without a need to increase rates.

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A.

Rate based generation provides the utility more flexibility in how it operates, which benefits customers. When compared with purchased power, rate based generation can be life-extended or retired free of any specific term of an agreement to purchase power. The utility will have control of this asset for its entire 40-50 year life. Rate based generation can also be dispatched as required without any required conditions of purchase, like minimum "take or pay" energy purchase requirements. In addition, rate based generation helps Black Hills Power maintain good credit ratings with rating agencies which contribute to the overall health and flexibility of the Company.

### 12 IS WYGEN III STILL A NECESSARY ASSET GIVEN THE EFFECT OF Q. RECENT ECONOMIC CONDITIONS ON BLACK HILLS POWER'S 13 14 **SERVICE TERRITORY?**

Yes. Wygen III is still a necessary asset. Although growth has slowed somewhat in the short term, residential and commercial accounts continue to grow. While some major manufacturers and key customers have reduced their load requirements, there continues to be growth in other areas of the Company's service territory including Sanford Lab, Encore Operating and retail loads at Rushmore Crossing. The current and projected growth mandate new base load generation to serve customer load and to maintain reliability standards. Therefore, at the time the decision was made to build Wygen III, it was the correct decision. Given that Wygen III is the best solution to satisfy the need for additional power supply, the Company believes it remains the best decision for the Company and its customers.

# 4 Q. WHAT ACTIONS HAS BLACK HILLS POWER TAKEN TO MITIGATE

### THE IMPACT OF THE COST OF WYGEN III TO CUSTOMERS?

- Black Hills Power has managed the construction of Wygen III in a prudent manner which is reflected in the fact that construction is expected to be completed on time and under budget, which will benefit the Company's customers by further reducing the costs associated with this additional generation. In addition, Black Hills Power expects to receive 50 percent bonus depreciation on Wygen III which is being allowed pursuant to the American Recovery and Reinvestment Act of 2009. As described in the testimony of Christopher J. Kilpatrick, this bonus depreciation has the effect of lowering the net amount relating to Wygen III that the Company is requesting to add to rate base to approximately \$110 million.
- 15 Q. WITH THE CURRENT DISCUSSION ABOUT GLOBAL CLIMATE
  16 CHANGE, DO YOU BELIEVE IT WAS STILL THE RIGHT DECISION
  17 TO BUILD WYGEN III?
- A. Absolutely. As part of the IRP, scenarios involving varying levels of carbon taxes were modeled and the construction of Wygen III was still supported as a good decision. Beyond that, building coal-fired generation today makes sense for Black Hills Power and its customers. Building mine-mouth generation and purchasing coal from an affiliate assures a cost-effective long-term fuel supply. Therefore,

- especially for Black Hills Power, common sense supports adding coal-fired generation through Wygen III.
- 3 Q. WHAT HAPPENS IF THERE ARE RESTRICTIONS ON UTILITY
- 4 EMMISSIONS OF CARBON DIOXIDE IN THE FUTURE?
- 5 A. The timing of the construction of Wygen III will be beneficial to customers 6 because Black Hills Power will have other ways to reduce its carbon footprint. 7 Conservation and energy efficiency will be more cost-effective for customers at 8 higher utility rates, causing them to seek out and get involved in conservation and 9 energy efficiency efforts which will have the effect of reducing the level of their 10 need for electricity. In addition, Black Hills Power has generation that already has 11 served customers for between 40 and 60 years that could be retired and replaced 12 with new technologies as they are developed. I believe that new coal-fired 13 generation must continue to be added to meet customer demands for electricity 14 and a strong economy. If economic, Wygen III may also be retro-fitted to capture 15 and sequester carbon dioxide. The future is uncertain, what is certain is that under 16 numerous assumptions regarding the future, Wygen III was identified as a cost-17 effective resource.
- 18 IV. <u>ADDITIONAL CHANGES INCLUDED IN THE APPLICATION</u>
- 19 Q. OTHER THAN THE ADDITION OF WYGEN III TO RATE BASE, ARE
- 20 THERE ANY OTHER CHANGES TO THE APPLICATION?
- 21 A. Yes. Black Hills Power is proposing changes to the Conditional Energy Cost
  22 Adjustment ("CECA") and to the Steam Plant Fuel Cost Adjustment ("SPFCA").

## 1 Q. PLEASE PROVIDE SOME DETAIL REGARDING THE CHANGES TO

- 2 THE CECA AND SPFCA.
- 3 A. As set forth in detail in the testimony of Christopher J. Kilpatrick, the Company is 4 proposing that the CECA will have a new base cost amount determined by total 5 adjusted expense divided by total system energy sales. In addition, a change in the 6 resource stacking methodology for generation resources is proposed whereby 7 renewable resources will serve load first and be paid for first by customers. In the 8 current stacking methodology, the lowest cost resource always went to serve base 9 load first. Another change to the CECA will assign specific blocks of energy in the 10 resource stack to ensure it is paid by customers first, possibly ahead of the lowest 11 cost resource. This will ensure that blocks of energy purchased specifically to 12 serve Black Hills Power's retail load obligations, such as peak load during the 13 Sturgis Motorcycle Rally, will be assigned to the source of the cost. Finally, a 14 clarification has been added to the SPFCA and CECA to ensure that costs related 15 to governmental impositions on generation plants, such as a carbon tax, can be 16 recovered through the SPFCA and CECA as those costs relate to fuel.
- 17 Q. ARE THERE ANY OTHER MATERIAL CHANGES BEING PROPOSED

  18 IN THIS APPLICATION?
- 19 A. No. Aside from the addition of Wygen III to rate base and the changes highlighted
  20 above, there are no material changes proposed in this Application.

# V. RATE INCREASE

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_	II.	WHALIS		REVENUE INCREAS	. H. 7

- A. Black Hills Power is seeking to increase its electric base rates in South Dakota to recover approximately \$32,000,000 million annually in additional electric revenues. Black Hills Power is requesting that the increase become effective upon the in service date for Wygen III which is expected to be April 1, 2010, but no earlier than March 1, 2010.
- 8 Q. THIS IS ONLY THE SECOND INCREASE IN BASE ELECTRIC RATES
  9 REQUESTED BY THE COMPANY IN 15 YEARS. RATHER THAN
  10 ASKING FOR THE RATE INCREASE SUPPORTED BY THIS
  11 APPLICATION, WHY DIDN'T THE COMPANY ASK FOR MORE
  12 FREQUENT, SMALLER RATE INCREASES?
  - A. There are two reasons. First, for much of those 15 years the Company was subject to rate freezes. Second, and more importantly, the traditional regulatory model only allows prices to increase when costs have been demonstrated to have increased. The rate making model simply states:

17 Revenues = Expenses + Return on Investment.

During much of the last 15 years Black Hills Power has been able to meet its obligation to customers for providing safe and reliable electric service by balancing expenses and new investment in plant with sales growth. With the required addition of Wygen III and other changes to our business, we are no longer able to maintain that balance without this rate increase.

1	Q.	IS IT COMMON FOR UTILITIES TO PERIODICALLY NEED LARGER
2		RATE INCREASES IN ORDER TO RECOVER THE COSTS OF
3		MEETING THEIR UTILITY SERVICE OBLIGATIONS?
4	A.	Yes, and quite often a new base load power plant or purchased power agreement is
5		the primary reason for the increased revenue requirement. For Black Hills Power,
6	and the same of th	a large share of the requested rate increase is for ownership and operating costs
7		related to Wygen III.
8	Q.	ARE YOU CONCERNED THAT CUSTOMERS MAY HAVE AN
9		UNFAVORABLE REACTION TO THE PERCENTAGE INCREASE
10		REQUESTED?
11	A.	Yes, we are always concerned about our customers' satisfaction with the services
12		we provide. We pride ourselves on being the kind of company people like to do
13		business with. The rate increase is necessary for the company to recover its costs
14		incurred in meeting its electric service obligations.
15		Electricity is an amazing product. It is the core ingredient in achieving an ever
16		increasing quality of life for many of our customers. It provides essential services
17		like heating and cooling, cooking, refrigeration and lighting. The benefit of these
18		electric services is often taken for granted when contrasted with digital cellular
19		phones, high-definition cable television and high-speed internet connections. Our
20		typical residential customer gets the electricity for all this and more for just \$2 to
21		\$3 per day. Even with the proposed rate increase, in real terms our customers will
22		be paying about what they did in 1995 when we finished the last utility

- 1 construction cycle. Our employees come to work every day with the mission of
  2 "Improving life with energy." Commission approval of the requested rate increase
  3 is important to support Black Hills Power's efforts to meet our obligation to
  4 customers and their expectations of us.
- 5 Q. DOES THIS CONCLUDE YOUR TESTIMONY?
- 6 A. Yes, it does.