

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

**IN THE MATTER OF THE APPLICATION OF BLACK HILLS POWER, INC. FOR
AUTHORITY TO INCREASE ITS ELECTRIC RATES**

DOCKET NO. EL14-026

**TESTIMONY OF DAVID E. PETERSON
ON BEHALF OF THE COMMISSION STAFF**

JANUARY 15, 2015

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I. INTRODUCTION

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Q. PLEASE STATE YOUR NAME, OCCUPATION AND BUSINESS ADDRESS.

A. My name is David E. Peterson. I am a Senior Consultant employed by Chesapeake Regulatory Consultants, Inc. ("CRC"). Our business address is 1698 Saefern Way, Annapolis, Maryland 21401-6529. I maintain an office in Dunkirk, Maryland.

Q. WHAT IS YOUR EDUCATIONAL BACKGROUND AND EXPERIENCE IN THE PUBLIC UTILITY FIELD?

A. I graduated with a Bachelor of Science degree in Economics from South Dakota State University in May of 1977. In 1983, I received a Master's degree in Business Administration from the University of South Dakota. My graduate program included accounting and public utility courses at the University of Maryland.

In September 1977, I joined the Staff of the Fixed Utilities Division of the South Dakota Public Utilities Commission as a rate analyst. My responsibilities at the South Dakota Commission included analyzing and testifying on ratemaking matters arising in rate proceedings involving electric, gas and telephone utilities.

Since leaving the South Dakota Commission in 1980, I have continued performing cost of service and revenue requirement analyses as a consultant. In December 1980, I joined the public utility consulting firm of Hess & Lim, Inc. I remained with that firm until August 1991, when I joined CRC. Over the years, I have analyzed filings by electric, natural gas, propane, telephone, water,

1 wastewater, and steam utilities in connection with utility rate and certificate
2 proceedings before federal and state regulatory commissions.

3
4 **Q. HAVE YOU PREVIOUSLY PRESENTED TESTIMONY IN PUBLIC**
5 **UTILITY RATE PROCEEDINGS?**

6 A. Yes. I have presented testimony in 146 other proceedings before the state
7 regulatory commissions in Alabama, Arkansas, California, Colorado,
8 Connecticut, Delaware, Indiana, Kansas, Maine, Maryland, Montana, Nevada,
9 New Jersey, New Mexico, New York, Pennsylvania, South Dakota, West
10 Virginia, and Wyoming, and before the Federal Energy Regulatory Commission.
11 Collectively, my testimonies have addressed the following topics: the appropriate
12 test year, rate base, revenues, expenses, depreciation, taxes, capital structure,
13 capital costs, rate of return, cost allocation, rate design, life-cycle analyses,
14 affiliate transactions, mergers, acquisitions, and cost-tracking procedures.

15
16 In addition, in 2006 I testified twice before the Energy Subcommittee of the
17 Delaware House of Representatives on consolidated tax savings and income tax
18 normalization. Also in 2006, I presented a one-day seminar to the Delaware
19 Public Service Commission (“Commission”) on consolidated tax savings, tax
20 normalization and other utility-related tax issues. In the spring of 2011, I co-
21 presented along with Mr. Scott Hempling, the then-director of NRRI, a three-day
22 seminar on public utility ratemaking principles to the Commissioners and Staff of
23 the Washington Utilities and Transportation Commission. In 2012, I presented a
24 one-day seminar on cost allocation and rate design to the Colorado Office of
25 Consumer Counsel. More recently, I presented a three-day seminar on utility
26 ratemaking, revenue requirements, cost allocation and rate design to the Delaware
27 Public Service Commission Staff.

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II. SUMMARY

Q. ON WHOSE BEHALF ARE YOU APPEARING IN THIS PROCEEDING?

A. My appearance in this proceeding is on behalf of the South Dakota Public Utilities Commission Staff (“Commission Staff”).

Q. HAVE YOU TESTIFIED IN OTHER PROCEEDINGS BEFORE THE SOUTH DAKOTA PUBLIC UTILITIES COMMISSION?

A. Yes, I have. I testified in a number of electric and natural gas distribution rate proceedings when I was on the Commission Staff during the period 1977 through 1980. More recently, I have assisted the Commission Staff in several rate proceedings, including those involving Black Hills Power, Inc. (“BHP” or “the Company”), wherein the issues were resolved by settlements. However, I filed testimony on behalf of the Commission Staff in Docket No. EL12-046 involving a rate increase request filed by Northern States Power Company and in Docket No. NG12-008 involving a rate increase request filed by Montana-Dakota Utilities Co.

Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS PROCEEDING?

A. I was asked to present the Commission Staff’s support for the Settlement Stipulation reached by the Commission Staff and BHP. The Settlement Stipulation is intended to resolve all of the issues in this proceeding. My testimony also addresses certain issues raised in the testimonies presented by witnesses for the Black Hills Industrial Intervenors¹ (“BHII”).

¹ Members of the Black Hills Industrial Intervenors include GCC Dakotah, Inc., Pete Lien & Sons, Inc., Rushmore Forest Products, Inc., Spearfish Forest Products, Inc., Rapid City Regional Hospital, Inc. and Wharf Resources (U.S.A.), Inc.

1 **Q. BEFORE YOU BEGIN DISCUSSING THE SETTLEMENT**
2 **STIPULATION AND BHI'S ISSUES, PLEASE PROVIDE A BRIEF**
3 **SUMMARY OF BHP'S RATE REQUEST IN THIS PROCEEDING.**

4 A. BHP currently provides electric service to approximately 65,500 customers within
5 Rapid City and other western South Dakota communities under rates approved by
6 the South Dakota Public Utilities Commission ("the Commission"). BHP is a
7 wholly-owned subsidiary of Black Hills Corporation ("BHC"). BHC also owns
8 other regulated natural gas and electric utility companies operating in Colorado,
9 Iowa, Kansas, Montana, Nebraska and Wyoming. BHC also owns non-regulated
10 companies that generate wholesale electricity, that produce natural gas and crude
11 oil and that mine coal.

12
13 BHP's base (i.e., non-fuel) electric rates that were in effect at the time that the
14 Company initiated the instant proceeding were those that were approved by the
15 Commission at the conclusion of BHP's last base rate proceeding in Docket No.
16 EL12-061. BHP's 2012 rate proceeding was filed using an adjusted test year
17 ended June 30, 2012. BHP had initially requested a \$13.745 million annual
18 revenue increase in that case. However, the Commission approved a settlement
19 agreement that authorized BHP to increase annual revenues by approximately
20 \$8.831 million, effective October 1, 2013.

21
22 On March 31, 2014, BHP filed an application with the Commission seeking to
23 increase base electric rates by approximately \$14.634 million, or 9.27 percent, to
24 be effective October 1, 2014. This effective date was chosen by the Company to
25 coincide with the expected in-service date of the Cheyenne Prairie Generating
26 Station ("CPGS"). BHP is a co-owner of the CPGS. BHP's current rate request
27 was calculated from a Company-prepared revenue requirement study that relied
28 on a test year ended September 30, 2013. On October 1, 2014, BHP placed its

1 proposed rates into effect on an interim basis. BHP's interim rates will remain in
2 effect until the conclusion of this proceeding.

3
4
5 **III. SETTLEMENT STIPULATION**

6
7 **Q. ARE YOU THE ONLY ONE THAT ANALYZED BHP'S RATE REQUEST**
8 **FOR THE COMMISSION STAFF?**

9 A. No. The Commission Staff assembled a team of in-house analysts (Brittany
10 Mehlhaff, Patrick Steffensen and Eric Paulson) and three outside consultants,
11 including myself, to analyze BHP's rate increase application. The other two
12 outside consultants are my colleagues at CRC, Robert Towers and Basil
13 Copeland, Jr. This is essentially the same team that analyzed BHP's 2012 filing
14 as well. Together, the Commission Staff team invested literally hundreds of hours
15 analyzing BHP's Application, Testimony, Exhibits, Filing Statements and
16 Workpapers. In addition, the Commission Staff propounded approximately 330
17 requests to BHP for additional data and information. Each response was carefully
18 reviewed and analyzed by one or more Staff analyst. In addition, the Commission
19 Staff carefully reviewed and analyzed information provided by BHP in response
20 to BHII's approximately 60 discovery requests.

21
22 The Commission Staff began its investigation shortly after the Commission
23 officially noticed BHP's rate increase Application on April 3, 2014. That
24 investigation continued until late October 2014 when settlement discussions
25 between the Commission Staff, BHP, BHII and another intervenor, Dakota Rural
26 Action ("DRA")², commenced. Settlement discussions continued through

² DRA did not file testimony in this proceeding but did participate in settlement discussions that were held.

1 November and into the beginning of December. Ultimately, the Commission
2 Staff and BHP reached a negotiated settlement that is intended to resolve all of the
3 issues arising in this proceeding. A Settlement Stipulation, signed on December
4 8, 2014, by representatives of the Commission Staff and BHP, memorializes the
5 terms of the settlement. BHII and DRA chose not to join the settlement.
6 Concurrent with the filing of my testimony, the Commission Staff is also filing a
7 Staff Memorandum Supporting Settlement Stipulation (“Staff Memorandum”).
8 The Staff Memorandum carefully summarizes all of the Commission Staff’s
9 adjustments that are factored into the agreed-upon settlement revenue increase.

10
11 **Q. WOULD IT BE FAIR TO CHARACTERIZE THE AGREEMENT**
12 **REACHED BETWEEN BHP AND THE COMMISSION STAFF AS A**
13 **“BLACK BOX” SETTLEMENT?**

14 **A.** No. Any such characterization of the settlement would be wrong. A black box
15 settlement typically is one where the specific resolution of issues cannot be
16 identified. This is not what occurred in this proceeding, however. Rather, the
17 Commission Staff prepared a detailed calculation of BHP’s test year rate base,
18 revenues and expenses, including known and measurable post-test year changes.
19 The Commission Staff revenue requirement determination identified differences
20 that it had with certain rate base, revenue and expense claims made by the
21 Company and issues raised by the Commission Staff that were not mentioned in
22 the Company’s filing. The Commission Staff also carefully considered the issues
23 and adjustments proposed by BHII in confidential settlement discussions. The
24 end result of the Commission Staff’s analyses is the Staff Memorandum, and the
25 supporting schedules, which detail how the Commission Staff arrived at and can
26 justify the \$6,890,746 revenue deficiency reflected in the Settlement Stipulation.
27 That document stands on its own and there is no need for me to explain in my
28 testimony each Commission Staff adjustment. The points that I am trying to

1 make in this discussion, however, are that the Commission Staff carefully
2 considered all of the issues raised in this proceeding by BHP and the BHII and
3 that the Staff Memorandum provides the Commission and the other parties a
4 transparent roadmap showing how the Commission Staff determined that the
5 agreed-upon annual revenue increase, \$6,890,746, is consistent with South
6 Dakota Law, prior Commission practices, and sound ratemaking principles and
7 results in just and reasonable rates. It is for these reasons that I recommend the
8 Commission approve the Settlement Stipulation and the terms contained therein.

9
10 In the following sections of my testimony I address certain claims made by
11 witnesses for the BHII, who did not join in the Settlement Stipulation.

12
13
14 **IV. BHII'S REVENUE REQUIREMENT TESTIMONY**

15 **Q. HAVE YOU REVIEWED THE DIRECT TESTIMONY OF LANE**
16 **KOLLEN ON BEHALF OF THE BHII?**

17 **A.** Yes, I have.

18
19 **Q. WERE YOU AWARE OF THE ISSUES RAISED BY MR. KOLLEN**
20 **PRIOR TO SEEING HIS TESTIMONY?**

21 **A.** Generally, yes. I was not aware of the specific details of each adjustment that Mr.
22 Kollen recommends prior to him filing testimony, but substantially all of the
23 issues he raises were identified and discussed in settlement discussions held
24 earlier in this proceeding and were considered by the Commission Staff.

25
26 **Q. BEGINNING AT PAGE 7 OF HIS DIRECT TESTIMONY, MR. KOLLEN**
27 **DISCUSSES GENERAL RATEMAKING PRINCIPLES WHICH HE**

1 **ACKNOWLEDGES FORM THE BASIS FOR MANY OF HIS**
2 **RECOMMENDED ADJUSTMENTS. PLEASE COMMENT ON THE**
3 **GENERAL RATEMAKING PRINCIPLES THAT HE DISCUSSES.**

4 A. Mr. Kollen identifies and recommends the following three principles:

- 5 1. The Commission should limit any post-test year adjustment to the twelve-
6 month period immediately following the historical test year ended
7 September 30, 2013.
- 8
9 2. The Commission should reject proposed post-test year increases in various
10 expenses that are not justified and that the Company did not demonstrate
11 were necessary and appropriate.
- 12
13 3. The Commission should reject adjustments that are not consistent with
14 Commission precedent or policy, that are not justified, and that the
15 Company did not demonstrate were necessary and appropriate.
- 16

17 Initially, while I am unable to discern a difference between Mr. Kollen's second
18 and third principles, I can find no fault in either principle. In fact, I believe that
19 the Commission Staff's revenue requirement, as described in detail in the Staff
20 Memorandum, is faithful to both principles.

21
22 Ironically, Mr. Kollen's first principle is inconsistent with his third. It is my
23 understanding that the Commission's long-standing policy has been to consider
24 post-test year adjustments up to twenty-four months, not twelve months, beyond
25 the end of the test year provided they are known with reasonable certainty and
26 measureable with reasonable accuracy. Indeed such a treatment is, in effect,
27 mandated to the Commission by South Dakota Administrative Rule 20:10:13:44.
28 In addition to ignoring the twenty-four month look-out provision, Mr. Kollen
29 apparently interprets this administrative rule to require that any costs that are
30 beyond twelve months post-test year must be accompanied by projected changes
31 in revenue for the same period. This is not how the Commission and the

1 Commission Staff have interpreted this rule, however. Rather, it is my
2 understanding that both the Commission Staff and the Commission have
3 previously interpreted this rule to mean that for any post-test year change in
4 expense or investment that has an incremental revenue component (i.e., expenses
5 or investments made to increase sales and/or to serve new customers) a
6 corresponding revenue adjustment must also be recognized. It is for this reason
7 that the Settlement Stipulation does not include any costs associated with post-test
8 year plant additions that are designed to improve sales or to serve new customers.
9 Similarly, there is no corresponding revenue offset for any of the post-test year
10 expense adjustments that are reflected in the Settlement Stipulation. Therefore,
11 the Settlement Stipulation is consistent with prior Commission policy in this
12 regard and with the governing administrative rule. By the same token, the
13 adjustments recommended by Mr. Kollen that do not reflect this principle as I
14 have described it are inconsistent with long-standing Commission policy.
15

16 **Q. CONCERNING THE ADJUSTMENTS THAT MR. KOLLEN**
17 **RECOMMENDS, ARE ANY OF THEM ALREADY REFLECTED IN THE**
18 **SETTLEMENT STIPULATION?**

19 **A.** Yes. Many of Mr. Kollen's recommended adjustments already are addressed in
20 the manner described in the Staff Memorandum and are part of the agreed-upon
21 revenue requirement by the Commission Staff and BHP. These adjustments
22 include the following:

- 23 1. Double-count of CPGS spare parts inventory (eliminated in
24 settlement);
- 25 2. Decommissioning regulatory asset (contingency allowance in
26 original cost estimate has been removed by settlement);
- 27 3. Decommissioning regulatory asset (ten-year amortization
28 reflected in settlement).

- 1 4. Storm Atlas regulatory asset deferred income taxes (corrected in
2 settlement);
- 3 5. Retired steam plants amortization (ten-year amortization period
4 reflected in settlement);
- 5 6. Storm Atlas regulatory asset amortization (ten-year amortization
6 period reflected in settlement);
- 7 7. CPGS depreciation (depreciation rate reflects 40-year life span);
- 8 8. FutureTrack Workforce Program (all costs were excluded in
9 settlement and no deferrals will be made. Rather, only the cost of
10 employees actually hired to date are reflected in settlement); and
- 11 9. Employee additions (only the cost of employees actually hired to
12 date are reflected in the settlement).

13

14 **Q. MR. KOLLEN TESTIFIES THAT IT IS IMPROPER TO INCLUDE THE**
15 **NET OPERATING LOSS (“NOL”) ASSET IN RATE BASE. DO YOU**
16 **AGREE?**

17 **A.** No, I do not. As explained in the Staff Memorandum, over the past several years,
18 “bonus” depreciation previously authorized by Congress significantly increased
19 BHP’s annual tax deductions. The sum of BHP’s tax deduction, including the
20 new bonus depreciation deductions, however, exceeded its taxable revenues,
21 which resulted in an NOL for tax purposes. Because of the tax loss position, BHP
22 was not able to utilize all of its allowable tax deductions in the year they were
23 earned. Consistent with accounting requirements, it had recorded deferred taxes
24 relating to these tax deductions, nevertheless. The corresponding accumulated
25 deferred tax liability is used as an offset or reduction to BHP’s rate base. Without
26 an adjustment, BHP’s rate base would be reduced (via the deferred tax liability
27 offset) by more than the tax benefit that the Company has realized to date because
28 of the unused tax deductions. Therefore, it is necessary to adjust BHP’s rate base

1 to reflect the unused tax deductions. The specific adjustment reflected in BHP's
2 rate base is a deferred tax asset, to which Mr. Kollen objects. Failure to provide
3 for the deferred tax asset in rate base, as Mr. Kollen recommends, however, risks
4 a violation of the IRS's normalization requirements.

5
6 The U.S. Tax Code Section 168 (i) (9) concerning the Accelerated Cost Recovery
7 System that is now being used by BHP and other utilities to determine
8 depreciation-related tax deductions provides as follows:

9 **(9) Normalization rules**

10 **(A) In general**

11 In order to use a normalization method of accounting with respect to any public
12 utility property for purposes of subsection (f)(2)—

13 (i) the taxpayer must, in computing its tax expense for purposes of establishing its
14 cost of service for ratemaking purposes and reflecting operating results in its
15 regulated books of account, use a method of depreciation with respect to such
16 property that is the same as, and a depreciation period for such property that is no
17 shorter than, the method and period used to compute its depreciation expense for
18 such purposes; and

19 (ii) if the amount allowable as a deduction under this section with respect to such
20 property (respecting all elections made by the taxpayer under this section) differs
21 from the amount that would be allowable as a deduction under section [167](#) using
22 the method (including the period, first and last year convention, and salvage
23 value) used to compute regulated tax expense under clause (i), the taxpayer must
24 make adjustments to a reserve to reflect the deferral of taxes resulting from such
25 difference.

26 **(B) Use of inconsistent estimates and projections, etc.**

27 (i) In general: One way in which the requirements of subparagraph (A) are not
28 met is if the taxpayer, for ratemaking purposes, uses a procedure or adjustment
29 which is inconsistent with the requirements of subparagraph (A).

30 (ii) Use of inconsistent estimates and projections: The procedures and adjustments
31 which are to be treated as inconsistent for purposes of clause (i) shall include any
32 procedure or adjustment for ratemaking purposes which uses an estimate or
33 projection of the taxpayer's tax expense, depreciation expense, or reserve for
34 deferred taxes under subparagraph (A)(ii) unless such estimate or projection is

1 also used, for ratemaking purposes, with respect to the other 2 such items and
2 with respect to the rate base.
3

4 In this instance, a violation identified in paragraph (B) (ii) above could result if
5 Mr. Kollen's recommendation were to be adopted by the Commission because
6 BHP's resulting reserve for deferred taxes for ratemaking purposes (i.e.,
7 excluding the deferred tax asset) would not match the tax benefits of the
8 depreciation-related tax deductions that BHP has received to date because a
9 portion of those benefits are yet unrealized due to the existence of the NOL.

10
11 Violating the IRS normalization requirements could result in the disallowance of
12 BHP's accelerated tax depreciation deductions which will have an extremely
13 adverse impact on South Dakota ratepayers, including members of the BHII.

14
15 Moreover, the treatment of BHP's NOL reflected in the Settlement Stipulation is
16 the same as that approved by the Commission in BHP's last base rate case and in
17 the base rate cases for other South Dakota utilities. For these reasons, I
18 recommend the Commission reject Mr. Kollen's NOL rate base adjustment.

19
20 **Q. WHAT WAS BHP INITIALLY REQUESTING CONCERNING ITS**
21 **DECOMMISSIONING ASSETS ASSOCIATED WITH THE**
22 **RETIREMENT OF THE NEIL SIMPSON I, BEN FRENCH, AND OSAGE**
23 **COAL-FIRED GENERATING UNITS?**

24 A. BHP initially proposed to amortize estimated costs, including contingency
25 allowances, associated with the retirement and decommissioning of these three
26 generating stations over five years and to include the unamortized balance in rate
27 base.
28

1 **Q. HOW IS THIS ISSUE TREATED IN THE SETTLEMENT?**

2 A. The settlement removes all contingency allowances that had been included in
3 BHP's cost estimates. It also provides for a ten-year amortization period and
4 includes the average unamortized balance over the first three years in rate base.

5
6 **Q. WHAT DOES MR. KOLLEN RECOMMEND ON THIS ISSUE?**

7 A. Mr. Kollen objects to any rate recognition for this issue at this time. Instead, he
8 recommends the Commission authorize BHP to defer the decommissioning costs
9 as regulatory assets and to address recovery of the assets in the Company's next
10 base rate case. In support of his recommendation, Mr. Kollen objects to the
11 contingency allowance contained in BHP's cost estimate and to BHP's proposed
12 five-year amortization period. Both of these concerns are addressed in the
13 settlement, however. Mr. Kollen also objects to current rate recovery because he
14 believes the decommissioning costs (1) are not known with reasonable certainty
15 and measurable with reasonable accuracy, (2) will be incurred more than twelve
16 months beyond the end of the test year, and (3) are not accompanied by revenue
17 adjustments. I already discussed my issue with Mr. Kollen's interpretation of the
18 administrative rule governing post-test year adjustments. ARSD 20:10:13:44
19 permits the Commission to look out twenty-four months beyond the end of the
20 test year to recognize known and measurable revenue and cost changes; and not
21 just the twelve months that Mr. Kollen advocates. Also, there is no revenue
22 producing aspect to retiring the three coal-fired units. Thus, there is no merit to
23 Mr. Kollen's second and third arguments. As for his first argument, that the
24 decommissioning costs are not known with reasonable certainty and measurable
25 with reasonable accuracy, again, there is no merit to Mr. Kollen's claim. The
26 Commission Staff was comfortable with recognizing BHP's cost claims,
27 excluding the contingency allowances, as a known change because approximately
28 70 percent of the estimated costs are capped by a fixed price contract for

1 decommissioning activities. Since a majority of the costs are determined by a
2 fixed price contract, I believe that this reasonably qualifies the adjustment as
3 known and measurable. As for Mr. Kollen's recommendation to defer BHP's
4 decommissioning costs until the next rate proceeding, by following that path, it is
5 likely that BHP would not have agreed to the stay-out moratorium provision in
6 the Settlement Stipulation. Deferring decommissioning costs also comes with a
7 price. Unamortized decommissioning costs are included in rate base and earn a
8 return such that future ratepayers will pay more the longer recovery is delayed.
9 For these reasons, I support the treatment reflected in the Settlement Stipulation
10 relating to BHP's decommissioning costs.

11
12 **Q. MR. KOLLEN ALSO OBJECTS TO BHP'S PROPOSED TREATMENT**
13 **OF THE 69 KV LIGHT DETECTION AND RANGING ("LIDAR")**
14 **SURVEYING COSTS. HOW IS THIS ISSUE TREATED IN THE**
15 **SETTLEMENT?**

16 A. The settlement provides for an amortization of BHP's costs associated with this
17 project over a five-year period.

18
19 **Q. WHAT ARE MR. KOLLEN'S OBJECTIONS TO RECOGNIZING THESE**
20 **COSTS?**

21 A. Mr. Kollen objects to recognizing these costs in rates because they were not
22 incurred within twelve months following the end of the test year. Moreover, to
23 the extent that the costs are to be amortized, Mr. Kollen recommends a ten-year
24 amortization rather than five years as provided for in the settlement.

25
26 **Q. WHAT IS YOUR RESPONSE TO MR. KOLLEN'S CONCERNS?**

27 A. BHP expected to have incurred its LIDAR surveying costs by the end of the third
28 quarter in 2014. This is well within the twenty-four month period the

1 Commission typically relies on for evaluating post-test year adjustments.
2 Moreover, as with BHP's decommissioning costs discussed earlier in my
3 testimony, BHP's LIDAR costs are also governed and capped by a fixed rate
4 contract. Thus, in my opinion, the costs are sufficiently known and measurable
5 and are appropriately recognized in rates. The five-year amortization period
6 reflected in the settlement was determined because five years is the expected
7 frequency for LIDAR surveying activities. Therefore, it would be inappropriate
8 to employ a ten-year amortization period as Mr. Kollen recommends and thereby
9 burden BHP ratepayers, including BHII members, in years six through ten with
10 costs for two different LIDAR surveys. A five-year amortization simply makes
11 more sense for these costs.

12
13 **Q. WHAT DOES MR. KOLLEN RECOMMEND CONCERNING BHP'S**
14 **PROPOSED ADJUSTMENT FOR PROJECTED EMPLOYEE**
15 **ADDITIONS AND ELIMINATIONS?**

16 A. Mr. Kollen recommends the Commission disallow BHP's labor-related cost
17 adjustments because he believes the adjustments ignore the fact that BHP
18 historically has several open positions.

19
20 **Q. HOW IS THIS ISSUE TREATED IN THE SETTLEMENT?**

21 A. The Commission Staff shares Mr. Kollen's concern about recognizing phantom
22 costs in rates for vacant positions. Because of this concern, the settlement
23 includes cost allowances for only filled positions at the time of the Commission
24 Staff's review. That is, cost allowances for vacant positions are not included in
25 the settlement revenue requirement. This treatment should resolve Mr. Kollen's
26 concern.

1 **Q. HOW WAS THE PENSION EXPENSE ISSUE TREATED IN THE**
2 **SETTLEMENT?**

3 A. The following table shows BHP's pension expense over the last five years.

4 **Table 1**
5 **BHP Annual Pension (FAS 87) Expense**
6 **2010 Through 2014**

8	2010	\$2,925,853
9	2011	\$1,819,156
10	2012	\$3,251,072
11	2013	\$2,709,322
12	2014	<u>\$ 976,122</u>
13	Five-year average	\$2,336,305³

14
15 As shown in the table above, BHP's 2014 pension expense was unusually low
16 when compared with the previous four years. Because of the significant
17 variability of the expense year-to-year, BHP proposed a normalization adjustment
18 that includes a pension expense allowance based on the average of the annual
19 expenses over the last five years. The settlement incorporates BHP's pension
20 normalization adjustment. The agreed-upon pension expense represents a
21 \$508,454 reduction from the test year pension expense, on a total Company basis.

22
23 Mr. Kollen considers the pension normalization adjustment "opportunistic" in that
24 it does not reduce the test year expense far enough and it prevents BHP ratepayers
25 from receiving the benefit from the lower pension expense in 2014 that the
26 Company enjoyed. To support his contention, Mr. Kollen stated the Company
27 offered no evidence that the pension expense will swing upward to the five-year
28 average in future years.

29

³ See BHP's response to Staff DR1-1; workpapers for Schedule H-6.

1 In truth, it is Mr. Kollen's position that is opportunistic. It is clear from the table
2 above that BHP's pension expense can be highly variable and subject to major
3 swings each year. Mr. Kollen's recommendation would have the Commission set
4 rates based on BHP's lowest pension cost level in the last five years, with the
5 knowledge based on recent experience that such costs are highly variable year-to-
6 year. An understatement of BHP's pension costs could place the Company in a
7 significant under-recovery position necessitating more frequent rate increases.
8 With a highly variable cost such as the pension expense, to avoid wide swings in
9 over-recovery and under-recovery of the underlying expense, it makes sense to
10 employ a normalization procedure, such as that reflected in the settlement. To
11 avoid any concern that the settlement approach is opportunistic, BHP and the
12 Commission Staff agreed in the Settlement Stipulation to follow the five-year
13 normalization approach for pension expense for the next five years, unless there is
14 an extraordinary event that makes a five-year normalization method unreasonable.

15
16 **Q. WHAT IS MR. KOLLEN'S CONCERN WITH INCENTIVE**
17 **COMPENSATION EXPENSES?**

18 A. Mr. Kollen believes the settlement resolution of the incentive compensation issue
19 does not go far enough. In the settlement, \$666,000 of the Company's \$1.554
20 million total test year incentive compensation expenses is excluded. This is the
21 amount that BHP identified as being tied to the Company's financial results. In
22 addition to this already excluded amount, Mr. Kollen would also exclude
23 \$149,000 in performance plan expenses and \$739,000 in incentive restricted stock
24 expenses. Mr. Kollen contends that these additional amounts represent incentive
25 awards that are similar in nature to those excluded in the settlement.

26
27 I do not necessarily disagree with Mr. Kollen's characterization of the incentive
28 awards. In fact, I had initially pursued the same issues on behalf of the

1 Commission Staff earlier in this proceeding. In the end, however, the
2 Commission Staff conceded this issue recognizing that the incentive
3 compensation exclusion embodied in the settlement is essentially the same type of
4 exclusion the Commission has approved for BHP in prior base rate case
5 settlements and for other South Dakota utilities. Therefore, I support the
6 exclusion that is contained in the settlement and recommend that the Commission
7 reject Mr. Kollen's recommendation to expand the exclusion at this time. Of
8 course, the Commission Staff and the BHII are free to revisit this issue in BHP's
9 next base case given the Settlement Stipulation in this proceeding does not
10 establish precedent on the incentive compensation issue.

11
12 **Q. MR. KOLLEN OPPOSES BHP'S ADJUSTMENTS RELATING TO COSTS**
13 **ALLOCATED TO IT BY TWO AFFILIATES, BLACK HILLS UTILITY**
14 **HOLDINGS, INC. ("BHUH") AND BLACK HILLS SERVICE COMPANY,**
15 **LLC ("BHSC"). WHAT ARE YOUR COMMENTS ON MR. KOLLEN'S**
16 **CONCERNS?**

17 **A.** BHP initially proposed an adjustment to test year BHUH expenses based on its
18 post-test year operating budget. I had the same concerns as those expressed by
19 Mr. Kollen that the adjustment lacked proper support. That is, I was not willing
20 to recommend the Commission approve an adjustment based solely on BHP's
21 budget projections. During our investigation, however, BHP provided a detailed
22 summary of its most recent annualized expenses from the two affiliated
23 companies⁴. The actual annual amounts billed to BHP are included in the
24 settlement. Thus, the amounts billed to BHP from affiliates that are incorporated
25 into the settlement reflect the Company's actual, known costs.

26

⁴ See BHP's Second Supplemental Response to Staff DR3-96

1 Mr. Kollen also pointed out in his testimony that certain billings from BHUH
2 were allocated to the South Dakota retail jurisdiction incorrectly on the
3 Commission Staff's revenue requirement schedules. Mr. Kollen is correct.
4 Properly allocating those expenses to South Dakota reduces the indicated revenue
5 deficiency by approximately \$286,000.
6

7 **Q. MR. KOLLEN OBJECTS TO BHP'S PROPOSED DEPRECIATION RATE**
8 **FOR THE NEW CHEYENNE PRARIE GENERATING STATION**
9 **BECAUSE IT REFLECTS AN ASSUMED 35-YEAR LIFE SPAN. WHAT**
10 **IS YOUR RESPONSE?**

11 A. Commission Staff addressed this issue and the Settlement Stipulation reflects the
12 same, longer, 40-year life span recommended by Mr. Kollen.
13

14 Moreover, it should be noted that whether it is 35 years or 40 years or some other
15 life span, the life span that serves as the foundation for a depreciation accrual rate
16 for CPGS *is an estimate* and a necessary departure from the principle that all
17 elements of BHP's revenue requirement should be "known and measurable".
18

19 **Q. WHY IS THAT IMPORTANT?**

20 A. It is important because it is relevant to Mr. Kollen's other depreciation-related
21 objections to the Settlement Stipulation – namely, the salvage estimates reflected
22 in BHP's proposed accrual rates for other production plants and the concept of
23 anticipating these future costs for current recovery. Beginning at page 47 of his
24 testimony, Mr. Kollen declares that (1) the development of the salvage values are
25 flawed and unreliable and then opines (2) that they may represent an undisclosed
26 proposal to change the Commission's policy for recovery of retirement-related
27 cost from after-retirement recovery to before-retirement recovery and (3) the
28 increased negative salvage allowances are not necessary at this time because the

1 Commission is not required to provide for the recovery of unknown future costs
2 in present utility service rates.

3

4 My point here is that, however desirable it might be to have all elements of the
5 revenue requirement based on absolutely known and measurable costs,
6 depreciation allowances must reflect estimates because neither the service life of
7 the asset nor the cost of the act of retirement are known until the asset has been
8 retired. Depreciation allowances represent allocations of capital costs of an asset
9 to the time periods as the asset provides service to customers over a long period of
10 time. In the absence of making such estimates, ratepayers benefitting from the
11 service provided by the asset will avoid these costs and cost recovery would be
12 shifted to future ratepayers not benefitting from that service. I know of nothing
13 that even suggests an existing Commission policy of refusing to recognize these
14 retirement-related costs until after the plant is retired.

15

16 Ironically, while objecting to the uncertainty of salvage estimates for other plant
17 and advising that the Commission need not provide for the recovery of costs to be
18 incurred in the future, Mr. Kollen is not reluctant to recommend a depreciation
19 accrual rate for CPGS that includes an allowance for future retirement costs equal
20 to 4 percent of that plant's capital costs as well as factoring in assumed
21 allowances for interim retirements (see Remaining Lives by Account exhibited on
22 the second page of Exhibit ___(LK-16); all are less than the 40-year life span by
23 reason of interim retirements).

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V. BHII'S COST ALLOCATION TESTIMONY

Q. HAVE YOU REVIEWED THE DIRECT TESTIMONY OF STEPHEN J. BARON ON BEHALF OF THE BHII CONCERNING CLASS COST ALLOCATION?

A. Yes, I have. In his testimony, Mr. Baron identified what he believes are several errors in BHP's class cost of service study ("CCOSS"). Based on his analyses, Mr. Baron recommended the Commission reject the Company's CCOSS. In spite of Mr. Baron's concerns with BHP's CCOSS, he nevertheless recommended the Commission approve the apportionment of the overall approved revenue increase to the rate classes as reflected in the Settlement Stipulation. Mr. Baron also recommended the Commission require BHP to file in its next base rate case a CCOSS reflecting the changes that he recommended in this case.

Q. BEFORE YOU DISCUSS MR. BARON'S RECOMMENDED CHANGES TO BHP'S CCOSS, DO YOU HAVE ANY INITIAL COMMENTS ON HIS TESTIMONY AND RECOMMENDATIONS?

A. Yes. Because the BHII accepts the apportionment of the overall approved revenue increase reflected in the Settlement Stipulation, there are no remaining issues to be decided by the Commission regarding the spread of the rate change among the rate classes. This is true irrespective of the issues that Mr. Baron raises with the CCOSS. In fact, Mr. Baron's testimony is unnecessary since the Company's CCOSS is not being adopted in the Settlement Stipulation and neither the Commission Staff nor BHP is asking the Commission to accept the Company's CCOSS. Only the spread of the revenue change among the rate classes is being resolved by the Settlement Stipulation and through Mr. Baron's testimony the BHII is accepting the settlement resolution concerning the spread of

1 the revenue change. Under the Settlement Stipulation, BHP, the Commission
 2 Staff and the BHII are free to advocate whatever they choose concerning the
 3 CCOSS in BHP’s next base rate proceeding. Therefore, it is not necessary for the
 4 Commission to rule on any CCOSS issue in this proceeding; nor is it necessary
 5 for the Commission to direct BHP to file a CCOSS in any particular manner in the
 6 next case. All parties’ rights are preserved in the Settlement Stipulation to
 7 advocate different CCOSS allocation procedures in BHP’s next base rate case,
 8 should they so choose.

9
 10 **Q. MR. BARON RECOMMENDED SEVERAL CHANGES TO BHP’S**
 11 **CCOSS. WHICH AMONG HIS RECOMMENDED CHANGES IS THE**
 12 **MOST SIGNIFICANT IN TERMS OF IMPACT ON CLASS RATES OF**
 13 **RETURN?**

14 **A.** By far, the recommended change that has the most impact on class rates of return
 15 relative to those shown in BHP’s CCOSS is the minimum distribution system
 16 (“MDS”) approach. The impact is illustrated in the table below.

17 **Table 2**
 18 **Class Cost of Service Study Analysis**
 19 **Comparison of Class Rates of Return**
 20

Rate Class	Column 1 BHC Results	Column 2 BHC with MDS	Column 3 BHII Adjustments
Residential	5.11%	4.47%	4.23%
General Service	9.85%	10.33%	9.98%
Combined GS Lg – Ind Contract	5.70%	6.50%	7.26%
Lighting	12.14%	12.19%	12.37%
Water pumping/irrigation	7.78%	9.10%	9.39%
Total SD retail	6.73%	6.73%	6.73%

21 **Sources:**
 22 **Columns 1,3: Baron Direct, page 26**
 23 **Column 2: BHII’s response to Staff DR-4**

1 Column 1 on the table above presents class rates of return under BHP's CCOSS at
2 existing base rates. Column 2 shows the resulting class rates of return if only the
3 MDS change that Mr. Baron advocates is incorporated into BHP's CCOSS.
4 Column 3 shows class rates of return if all of Mr. Baron's recommendations are
5 adopted. Notice that the change in class rates of return between Columns 2 and 3
6 is not as significant as the change between Columns 1 and 2. The relative
7 changes between the columns demonstrate the significance of the MDS approach
8 to Mr. Baron's recommended results.

9
10 **Q. WHAT IS THE MDS?**

11 **A.** The MDS postulates that there are certain types of facilities that must be installed
12 by the utility to provide customers access to the utility's electrical service,
13 regardless of customer usage requirements. The MDS then classifies the cost of
14 the minimum (or zero) size of these facilities as customer-related. For example,
15 the MDS calculation relied on by Mr. Baron attempts to estimate the cost of a
16 wooden pole that is essentially zero feet tall and then re-price the actual cost of all
17 of the wooden poles presently in service to reflect the cost of the minimum size
18 pole (zero feet). Using statistical techniques, the MDS study estimated that a
19 wooden pole with zero height would cost \$44.33. This amount was multiplied by
20 the total number of wooden pole to determine the total cost of the minimum size
21 system. The re-priced minimum size pole inventory divided by the total
22 investment in poles produces the ratio or percentage of the Company's pole
23 investment that Mr. Baron then classified as customer-related. The remainder of
24 the pole investment was classified as a demand-related cost. A similar procedure
25 was used to re-price BHP investments in underground conduit and conductors,
26 overhead conductors, and line transformers.

1 **Q. WHAT IS YOUR CONCERN WITH USING THE MDS TO CLASSIFY A**
2 **PORTION OF DISTRIBUTION COSTS AS CUSTOMER-RELATED?**

3 A. In general, my objection to the MDS approach is that it does not give appropriate
4 consideration to BHP's actual system design, construction and operation. Having
5 failed to give proper consideration to these important factors, the MDS fails to
6 reflect BHP's cost of service.

7
8 Those who support classifying distribution facilities (other than services and
9 meters) on a customer basis do so based on an assertion that some minimum
10 investment is necessary to make electrical service available for each customer,
11 regardless of the customer's peak or annual service requirements. Proponents then
12 argue that this "customer-related" investment should be defined as either: a) the
13 hypothetical cost of the current distribution system revalued using the cost of
14 minimum-sized distribution facilities presently installed on the system (the MDS
15 approach) or; b) the hypothetical cost of distribution plant having no load
16 carrying capability (the so-called "zero-intercept" approach being advocated by
17 Mr. Baron).

18
19 The minimum size distribution equipment that a utility will actually install,
20 however, is based on expected customer loads and existing customer densities,
21 not on the number of customers served by the utility or minimum service
22 requirements. As for the zero-intercept approach, no utility installs distribution
23 equipment incapable of carrying loads. Rather, the facilities that BHP installs are
24 sized, designed, operated and maintained in order to meet the individual
25 customers' peak and annual service and safety requirements. Neither the MDS nor
26 the zero-intercept variant of the MDS gives appropriate consideration to actual
27 system design, construction and operation. The MDS fails to reflect cost-
28 causation and, therefore, is not a proper cost allocation method.

1 **Q. APART FROM YOUR CONCEPTUAL ISSUES WITH THE ZERO-**
2 **INTERCEPT APPROACH TO THE MDS THAT MR. BARON**
3 **ADVOCATES, DO YOU HAVE ANY CONCERNS ABOUT THE MDS**
4 **STUDY AND THE ZERO-INTERCEPT CALCULATIONS UPON WHICH**
5 **MR. BARON RELIES?**

6 A. Yes, I do. The concerns that I discuss below only begin to scratch the surface of
7 the problems with the MDS calculations that may lie underneath. But, they are
8 sufficient enough for the Commission to challenge and to reject Mr. Baron's blind
9 reliance on the results of the MDS study.

10
11 Initially, it should be noted that neither Mr. Baron nor any one in his firm
12 participated in preparing the MDS study upon which he relies. Nor does Mr.
13 Baron have any knowledge of BHP's specific distribution design criteria.⁵
14 Rather, Mr. Baron relies on a ten-year old study that BHP Colorado's former
15 owner, Aquila, Inc., prepared for a 2004 rate case in Colorado. Mr. Baron never
16 attempts to prove that the conditions in Colorado are similar to those in BHP's
17 South Dakota service territory. Nor does Mr. Baron demonstrate the MDS study
18 is equally valid today with the passage of so much time. The only support that
19 Mr. Baron seems to offer for his use of Aquila's ten-year old MDS study is
20 pointing to the fact that BHP itself used the same study in this case to develop the
21 primary/secondary distribution facility split in its CCOSS.

22
23 **Q. IS THAT A SUFFICIENT REASON FOR USING AQUILA'S 2004 MDS**
24 **STUDY IN COLORADO IN THIS 2014 BHP SOUTH DAKOTA CASE?**

25 A. No, it is not. While BHP used the same study to split the primary and secondary
26 distribution facilities in its CCOSS, neither the MDS study nor BHP's CCOSS

⁵ See BHII's response to Staff Data Request No. 7.

1 study and results are being adopted in this case. Mr. Baron's reliance on BHP
2 using the same MDS study for a different purpose, therefore, is misplaced.
3 Moreover, Mr. Baron does not have an independent basis for using that MDS
4 study in this proceeding since it was not designed for nor does it attempt to
5 explain the design and cost components of BHP's South Dakota service territory.
6

7 **Q. DO YOU HAVE ANY OTHER CONCERNS WITH THE MDS STUDY?**

8 A. Yes. The statistics supporting the study are suspect as well. The author of the
9 study back in 2004 used three modeled regression forms (i.e., linear, exponential,
10 and polynomial) for each of Aquila's four distribution plant accounts that were
11 studied. The author then chose the "best" regression form among the three. But,
12 the only statistical parameter that he used to choose among the three modeled
13 regression forms was R-squared. While the study employed the R-squared
14 statistic in a consistent fashion throughout the study (i.e., always choosing the
15 equation with the highest R-squared), in many cases the R-squared statistic was so
16 high, and so close to the other R-squared statistics for the other regression forms,
17 as to call into question whether meaningful statistical inferences could be
18 obtained on the basis of R-squared alone. For example, for Account 365,
19 Overhead Conductors, the linear model had an R-squared of 0.9984, and the
20 polynomial model had an R-squared of 0.9994. But the intercepts (i.e., the MDS
21 point) were quite different; the linear model had an intercept of \$0.5905, and the
22 polynomial model had an intercept that was nearly 60 percent greater at \$0.9376.
23 While the R-squared of the polynomial model was slightly higher than that of the
24 linear model, it is possible that the difference in intercepts is not statistically
25 significant. But we have no way of determining whether that is the case because
26 the more relevant statistical parameters – the standard deviation of the intercepts
27 or T-statistics – are not provided in the MDS study. This highlights a common
28 fallacy in the use of regression models; that R-squared is a sufficient parameter

1 for making statistical inferences. It is not. It is possible that the R-squared is low,
2 but the regression coefficients are still statistically significant based on the
3 standard deviations. The opposite also can be true, especially with respect to
4 intercepts; the R-squared can be high and the intercept still not be significantly
5 different than zero.

6
7 There is yet further indication of problems with Aquila's MDS study. Take
8 Account 365 – Wood Poles, for example. Each of Aquila's R-squared values for
9 this account are high, ranging between 0.9451 and 0.9981. The intercepts vary
10 from -\$569.89 (linear model) to +\$801.43 (polynomial model). But is the
11 intercept not statistically different from zero? We cannot answer that question
12 because the relevant statistical parameters to evaluate this are not included in the
13 MDS study.

14
15 The Wood Pole regression analysis points out yet another problem with this type
16 of analysis. If you look at the graph provided in the MDS study for Wood Poles,
17 there are no data points below a pole height of 30 feet. That is of course because
18 pole heights of say five feet are unheard of. But the regression model assumes
19 that such a thing really exists. The issue here is that of extrapolating out of the
20 observed range. The NARUC Electric Cost Allocation Manual referenced by Mr.
21 Baron in support of the MDS approach recognizes this shortcoming in the MDS
22 approach.⁶ Statistically, extrapolating out of an observed range is always
23 questionable, and standard deviations are absolutely essential to make any kind of
24 a meaningful inference about estimates outside the range of observations. But,
25 this is precisely what the MDS approach requires; hypothesizing about costs that
26 never have been, or ever will be, observed in the real world because real world

⁶ See Baron Exhibit ____ (SJB-3), page 13 of 17.

1 electrical distribution engineers do not design for minimum or zero-load
2 conditions.

3
4 It is my understanding that the Commission has never before adopted the MDS
5 approach for any utility in South Dakota. I am loathe to recommend the
6 Commission adopt such a significant change in its long-standing practice based
7 on a ten-year old study prepared by another utility in another state where the
8 analyses are incomplete. Moreover, the author of the original study upon which
9 Mr. Baron relies is not even a participant in this proceeding. Thus, it is not
10 possible for the Commission Staff to ask questions about the study. In sum, the
11 MDS study relied on by Mr. Baron raises more questions than it answers and
12 should not be deemed reliable by the Commission for rate setting purposes.

13
14 **Q. MR. BARON ALSO RAISES AN ISSUE CONCERNING ENERGY LOSS**
15 **FACTORS NOT BEING REFLECTED IN BHP'S CURRENT ENERGY**
16 **COST ADJUSTMENT ("ECA") FACTOR. DO YOU HAVE ANY**
17 **COMMENT ON THIS?**

18 **A.** I am not aware if the Commission Staff has taken a position on loss factors in
19 connection with the ECA. Regardless, however, to the extent that the BHII feels
20 it has a legitimate concern with this issue, it is being raised in the wrong forum.
21 Mr. Baron acknowledges that ECA revenues and expenses are excluded in BHP's
22 base rates. Therefore, if the BHII wishes to pursue this issue it should do so in
23 connection with a review of BHP's ECA.

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VI. CONCLUSION

**Q. ON PAGE 4 OF HIS DIRECT TESTIMONY, MR. KOLLEN STATES:
“AS DEMONSTRATED BELOW, THE PROPOSED SETTLEMENT
BETWEEN THE COMPANY AND THE STAFF IS WOEFULLY
INADEQUATE.” DO YOU CARE TO COMMENT ON MR. KOLLEN’S
STATEMENT?**

A. Mr. Kollen’s disparaging characterization of the settlement marginalizes the hundreds of hours that were devoted to the rate investigation by the Commission Staff in analyzing BHP’s rate request and in crafting a resolution of all issues through a negotiated settlement. As is evident by the Staff Memorandum, the Commission Staff arrived at its settlement position based on a thorough analysis of all issues while relying on long-standing Commission practices and requirements imposed by South Dakota Administrative Rules governing ratemaking practices in the State. Obviously, there was give-and-take between the Commission Staff and BHP in settlement negotiations. Staff did not receive all that it hoped for; neither did BHP. In fact, BHP agreed to accept less than one-half (47 percent) of its original requested revenue increase. Moreover, the settling parties agreed to a stay-out provision that restricts BHP’s ability to seek another base rate increase prior to October 1, 2016. The two-year rate moratorium has real value to BHP customers, including the members of the BHII.

As shown in my testimony above, the Settlement Stipulation addresses many of the revenue requirement issues that Mr. Kollen raised. Other issues raised by Mr. Kollen are inconsistent with long-standing Commission practices and the requirements of South Dakota Administrative Rules governing public utility ratemaking. And while Mr. Kollen raised some legitimate concerns with a few of

1 his issues, those issues were addressed in confidential settlement negotiations and
2 were part of the give-and-take therein. As for Mr. Baron's testimony, it seems
3 unnecessary given that no party is asking the Commission to accept the
4 Company's CCOSS and that the BHII supports the apportionment of the revenue
5 increase to the rate classes that is reflected in the settlement. Whatever issue the
6 BHII has with cost allocation can be addressed in BHP's next rate proceeding
7 given that any resolution at this time will not have any impact on the outcome of
8 this proceeding.

9

10 **Q. DOES THIS COMPLETE YOUR TESTIMONY AT THIS TIME?**

11 **A. Yes, it does.**