

1 Q. Are you the same Mark Widmer who previously testified in these proceedings?

2 A. Yes.

3 **Introduction**

4 Q. What is the purpose of your testimony?

5 A. I will rebut:

- 6 • Messrs. Falkenberg and Chalfant’s proposed adjustments for short-term firm
- 7 and non-firm sales and purchase prices;
- 8 • Mr. Chalfant’s proposed adjustment for short term market activities;
- 9 • Mr. Falkenberg’s proposed adjustments for losses on short-term purchases
- 10 and sales, thermal availability, capacity rating and spinning reserve issues,
- 11 SMUD, Cholla outage and transmission;
- 12 • Ms. Wilson’s net power cost testimony;
- 13 • Mr. Hayet’s testimony on transmission;
- 14 • Mr. Herz’s net power cost testimony on thermal availability and thermal plant
- 15 maintenance; and
- 16 • Mr. Yankel’s net power cost testimony on his proposed Deseret supplemental
- 17 and WAPA I and WAPA II wholesale sales adjustments.

18 In doing so, I will demonstrate that their proposed adjustments should be rejected  
19 or adjusted. In addition to my rebuttal of the proposed net power cost adjustments  
20 discussed above, Mr. Watters will address the prudence of the wholesale sales  
21 discussed by Ms. Wilson, Mr. Yankel and Mr. Anderson, and Mr. [Getzelman](#)  
22 [Larsen](#) will address coal cost issues raised by Mr. Burrup.

1 **General**

2 Q. What is the Company's overall net power cost proposal for this case?

3 A. The Company's original filed net power costs were \$812.6 million on a Total  
4 Company basis. On June 8, 2001 the Company filed corrections to the  
5 Company's filed net power cost results for Utah loads, Colstrip 3 and 4 capacity  
6 ratings and the longer term San Diego sale, with all parties in the case. These  
7 changes were the result of discussions with various parties in the case and the  
8 Company's review of discussions in other proceedings. Based on these changes,  
9 the Company's corrected net power costs for the 12-month period ended  
10 September 30, 2000 are \$835.2 million on a Total Company basis. A summary of  
11 the revised net power cost results is provided as Rebuttal Exhibit UPL\_\_.1R  
12 (MTW-1R). In addition, based on the continuing review of various parties'  
13 testimony, the Company discovered a few additional corrections and adjustments  
14 that should be made to the Company filed net power costs. The corrected and  
15 revised items include the following items: Spinning Reserves, Deseret  
16 Supplemental, and transmission modeling. A discussion of each of these changes  
17 is included in my following testimony. The Company's final proposed net power  
18 costs for the twelve months ended September 30, 2000 test year are approximately  
19 \$806 million on a Total Company basis. The revised net power costs are included  
20 as Rebuttal Exhibit UPL\_\_.2R (MTW-2R).

21 Q. Please explain the Utah load correction included in the June 8, 2001 filed  
22 corrections.

1 A. The consultant hired by the United States Executive Agencies, Mr. Herz,  
2 informed the Company during model discussions that it had a load error in its net  
3 power costs model. The load data that was used to balance the Company's system  
4 included 1999 Utah loads instead of twelve months ended September 30, 2000  
5 loads. This correction reduces the Company's net power costs by approximately  
6 \$20.4 million on a Total Company basis.

7 Q. Please explain the Colstrip capacity correction included in the corrections filed  
8 June 8, 2001.

9 A. During the testimony phase of the Company's Oregon UE 116 process it was  
10 determined that the Company was using an old capacity rating of 70 MW each for  
11 Colstrip units 3 and 4 instead of the current ratings of 74MW each. The issue was  
12 also raised in Mr. Falkenberg's and Mr. Herz's direct case testimony. This  
13 correction lowers net power costs by \$6.6 million on a Total Company basis.

14 Q. Please explain the correction related to the San Diego Gas and Electric wholesale  
15 sale included in the corrections filed June 8, 2001.

16 A. During the Company's UE 116 case in Oregon, the Company discovered that it  
17 had inadvertently included the 100 MW long-term firm San Diego wholesale sale  
18 in the short-term firm sales category. Short-term firm transaction prices were  
19 adjusted to reflect the annualized effect of increased market prices the Company  
20 experienced during the test year. This adjustment is not appropriate for the San  
21 Diego contract because the sale is a series of four one-year contracts that were all  
22 signed on March 24, 1987 at a fixed price of \$16.45 per MWh and run through the

1 end of 2001. In other words, it is a intermediate-term firm wholesale sales  
2 contract and should be treated as such. Another similar contract, Springfield II, is  
3 already treated that way by Ms. Wilson, Mr. Anderson and Mr. Yankel. As a  
4 matter of fact, Mr. Anderson and Mr. Chalfant are treating the San Diego sale as  
5 intermediate term (longer-term) also. These contracts are also treated as  
6 intermediate term contracts in the Company's net power cost study. Further, this  
7 treatment is consistent with the treatment adopted by the Commission in Docket  
8 No. 99-035-10 for other similar contracts, such as the ESI, Hinson and Plains  
9 Electric wholesale sales contracts. This correction increases the Company's net  
10 power costs by approximately \$49.6 million on a Total Company basis. The San  
11 Diego contracts are included as Rebuttal Exhibit UPL\_\_3R (MTW-3R).

12 Q. Does your testimony include a discussion of the Spinning Reserve, Deseret and  
13 transmission modeling corrections mentioned above in your testimony?

14 A. Yes. Those items are included in the relevant sections of my following testimony.

15 Q. How do actual power costs for 2000 compare with the level now proposed by the  
16 Company?

17 A. During 2000 the Company experienced significantly higher purchased power  
18 prices as a result of the western energy crisis. As a result, 2000 actual net power  
19 costs were approximately \$833 million on a Total Company basis compared to the  
20 Company's current proposed net power costs of \$806 million, or almost double  
21 the amount included in rates.

1 Q. Does the Company expect net power costs to decline substantially from these  
2 levels during 2001?

3 Q. No. Actual net power costs for the first four months of 2001 totaled \$372 million.  
4 On an annual basis, the Company's 2001 net power costs were forecasted to be  
5 approximately \$760 million on a Total Company basis in a February 2001  
6 forecast. However, it should be noted that FERC recently placed a cap on  
7 wholesale energy prices that has resulted in much lower market prices today and  
8 through the remainder of the year, based on current expectations. Unfortunately,  
9 the Company's previously executed forward purchases are now higher priced than  
10 the current forward price curve. This has effectively eliminated the prior expected  
11 benefits of the Company's forward purchases, which had the effect of driving the  
12 lower expected net power costs for the second half of 2001, referred to by Mr.  
13 Falkenberg on page 10 of his testimony. As a result, the Company now expects  
14 net power costs to be substantially higher than the \$760 million previously  
15 forecast.

16 Q. There are a large number of proposed adjustments, many of which affect the  
17 outcome of other adjustments. How do you recommend the Commission treat  
18 these items?

19 A. Because of the multiple parts of some adjustments, some of which may be  
20 adopted and the interrelationship of some adjustments with other adjustments, I  
21 believe it will be necessary for the Commission to require a final net power cost  
22 run that incorporates Commission adopted adjustments to insure a clear record.

1 **Short-Term Firm and Non Firm Sales and Purchase Prices – Falkenberg, Chalfant**

2 Q. Mr. Falkenberg describes the Company’s market price adjustment as “hubris” and  
3 proposes a \$126.9 million adjustment to the Company’s net power costs. Mr.  
4 Chalfant of UIEC states that the Company’s price adjustments are imprecise and  
5 proposes a \$101.6 million adjustment to the Company’s net power costs. Do you  
6 have any general comments?

7 A. Yes. The Company believes the annualized market price adjustment for short-  
8 term firm and non-firm price increases included in its filing is consistent with  
9 historical ratemaking treatment the Company has received in the state of Utah.  
10 For example, if a wholesale contract has a price change at some time during the  
11 test year, the change is typically annualized to the beginning of the test year in the  
12 net power cost study. Similarly, if a contract terminates during the test year, the  
13 termination is annualized to the beginning of the test year. Following that same  
14 logic, the Company annualized the significant wholesale market price increases  
15 that affected the Company and the rest of the WSCC since spring 2000.

16 Q. Mr. Falkenberg states that “the Company’s method is the antithesis of a ‘known  
17 and measurable’ change.” Do you agree with this statement?

18 A. No. It seems that Mr. Falkenberg is taking issue with whether an actual change in  
19 costs can be viewed as known and measurable. The high market prices incurred  
20 during the test year are certainly known to the entire WSCC. The impact of the  
21 high market prices is certainly measurable also. As shown in my direct testimony,  
22 2000 market prices are drastically higher than 1999 market prices, and they did

1 not decline after the end of the test period. As a matter of fact, market prices were  
2 substantially higher after September 30, 2000 than those included in the  
3 Company's case. Mr. Falkenberg is not consistent when he suggests that the  
4 lower market prices that occurred at the beginning of the test period are more  
5 appropriate, while at the same time stating that "it is quite questionable as to  
6 whether 'normal' conditions actually exist anymore. ... It may be some time  
7 before the market returns to a state of surplus and attendant lower prices."

8 Q. Is the Company's market price annualization forward looking?

9 A. Not at all. As I explained previously, the adjustment merely annualizes cost  
10 increases the Company incurred during the historical test year.

11 Q. Please explain how the Company annualized the wholesale market price increases  
12 the Company experienced from June 2000 through September 2000 for the period  
13 October 1999 through May 2000.

14 A. The Company's market price annualization included several steps, which are  
15 outlined below:

16 First, the Company calculated the monthly average for each month from  
17 the year of inception to year-end 1999 for each index (Mavg).

18 Second, the Company calculated the 12-month average of the above  
19 monthly averages (Aavg) and the average of June through September (JSAvg),  
20 and the ratio of the June-September average over the annual average (Ratio =  
21 JSAvg / Aavg).

1 Third, the Company calculated the average actual prices for the period  
2 June 2000 through September 2000 (JSavg2000). The annualized average price  
3 (Aavg2000) for 2000 is determined by dividing the ratio developed above into the  
4 actual average price for June-September 2000: (Aavg2000= JSAvg2000/Ratio).

5 Fourth, the annualized monthly prices (MP) for the period October 1999  
6 through May 2000 are determined from the annual average price (Aavg2000) for  
7 2000 multiplied by the monthly average index price (Mavg), divided by the annual  
8 average (Aavg). (MP = Aavg2000 \* Mavg / Aavg)

9 Q. How do you respond to Mr. Falkenberg's claim that the Dow Jones Indices that  
10 the Company used to develop the annualized market prices may not be good  
11 reference points?

12 A. The Dow Jones electricity price indexes are calculated summaries of transactions  
13 that occurred at the major market hubs, and are widely used by the participants in  
14 the electricity market. The calculations of the indexes may not include all the  
15 transactions that occurred in the market. However, the calculations are  
16 representative of all transactions, and are not based on selected transactions or  
17 transactions of a limited number of participants. Mr. Falkenberg may not be  
18 "questioning whether the Dow Jones index represents a reasonable effort to  
19 develop an index." But he seems to be quick at questioning the ability of the  
20 participants to "accurately reveal all of the pertinent information." I must point  
21 out that Mr. Falkenberg's claims are conclusory in nature, and are not supported  
22 by sufficient explanation or demonstration to have much probative value.



1 Q. Both Mr. Falkenberg and Mr. Chalfant indicate that the Company used only four  
2 months of data to develop the annualized market prices. Do you agree with this  
3 description of the Company's methodology?

4 A. Not entirely. As shown in Mr. Falkenberg's Attachment RJF No.1, the Company  
5 used the entire history of the indexes since their inception, except year 2000, to  
6 develop the monthly shape of the prices. The annualized market prices for the test  
7 year were determined based on that shape and the prices in the months (June-  
8 September) that showed significant price increases during the test period.

9 However, I am not aware of any requirement on how many data points are needed  
10 for annualizing known and measurable changes. As I discussed earlier, if a  
11 contract has a price change in the last month of the test period, the change is  
12 typically annualized to the beginning of the 12-month test period. A copy of  
13 Attachment RJF No. 1 is provided as Rebuttal Exhibit UPL\_\_4R (MTW-4R).

14 Q. Mr. Falkenberg questions whether the Dow Jones Indices roughly approximate the  
15 prices the Company actually experienced in the market. How do you respond to  
16 this claim?

17 A. The Company is a buyer and seller in the market as are other participants in the  
18 WSCC market. Market prices have been transparent to all participants since the  
19 market opened up several years ago. Certainly not every transaction the Company  
20 carries out is at the index price, but the index shows the general condition of the  
21 market and the Company trades in that market and can not dictate more  
22 advantageous prices without losing transactions to other parties.

1 Q. Mr. Falkenberg points out that the Company ignored market price differences  
2 between firm and non-firm products that is stated and recommended in the  
3 Commission Order in Docket No. 99-035-10. Is this a valid criticism?

4 A. No. The Commission Order in Docket No. 99-035-10 states that the Committee  
5 claims that the “firm service has more value than non-firm service,” and therefore  
6 “short term firm prices should be higher than non-firm prices.” However, the  
7 Committee never provided any support for such a claim and a review of market  
8 prices for the last year shows that firm prices are generally higher than non-firm  
9 prices, but not always. Frequently, buyers enter firm transactions to insulate  
10 themselves from price spikes in the non-firm market. The claimed relationship  
11 between firm and non-firm is far from certain. In addition, the volumes of the  
12 short-term firm transactions are significantly higher than non-firm transaction  
13 volumes. As a result, the firm indexes are statistically more significant.

14 Q. Both Mr. Falkenberg and Mr. Chalfant state that the Company would not make  
15 the same short term firm sales and purchases if the higher market prices were in  
16 place. Do you agree?

17 A. No. The short term firm transactions that the Company makes may not be the  
18 same from one period to another. But the needs to supplement its resource  
19 portfolio and the opportunities to generate wholesale revenue would still be there  
20 regardless of market prices for that same historical period. To annualize price  
21 changes of a contract, only the prices are changed, although the energy amount  
22 may be different. Messrs. Falkeberg and Chalfant do not seem to think prices

1 impact volumes when they propose their adjustments for so-called losses on short-  
2 term purchases and sales. Mr. Chalfant sites the changes in purchases and sales  
3 from November and December 1999 to November and December 2000 and claims  
4 that they are attributed to the Company's response to the market prices.

5 Apparently, Mr. Chalfant has not recognized the changes that affected the  
6 November and December 2000 transactions. Those changes include poor hydro  
7 conditions, severe winter weather in December, the sale of the Centralia plant in  
8 May 2000, the outage of the Hunter #1 unit starting in November 2000, and the  
9 changes in the Company's other load obligations and long-term resources.

10 Q. Mr. Chalfant states on page 3 of his testimony that it does not appear that the  
11 Company's annualized market prices make any attempt to use the timing of the  
12 Company's purchases and sales to develop properly weighted monthly average  
13 prices. Is this correct?

14 A. No. The Company used peak and off-peak splits from the test period to develop  
15 the weighted monthly average prices that are used as inputs to the model.

16 Q. On page 5 of Mr. Chalfant's testimony, he states that it is not "obvious whether  
17 these subsequent price changes had a negative or positive impact on PacifiCorp's  
18 costs and revenues, for example, because, they may have had a greater impact on  
19 sales than purchases and, as a result, increased revenue more than costs". Does  
20 this reflect the Company's actual experience?

21 A. No. As I discussed above, high market prices have driven the Company's net  
22 power costs up substantially. For example, the adopted net power cost in the

1 Company's 1998 Utah rate case were approximately \$426 million on a Total  
2 Company basis compared to \$833 million on an actual basis for 2000. Of these  
3 costs, approximately \$68 million are for replacement power purchases for the  
4 Hunter outage. Nonetheless, it is still obvious that high market prices have had a  
5 negative impact on the Company, even though prices weren't high for the entire  
6 year.

7 Q. Is it more appropriate to use actual prices in the current proceeding when the  
8 market has departed so drastically from price levels experienced prior to June  
9 2000?

10 A. No. The method that the Company used to annualize known increases in market  
11 prices may not be perfect. However, given the information available to the  
12 Company, the method captures the logic of annualizing known and measurable  
13 changes, and captures reasonably well the magnitude of the changes. Assuming  
14 the same market prices that existed prior to June 2000 will be known and  
15 representative for the period rates will be in effect is a blunt denial of reality.

16 Q. On page 27 of Mr. Falkenberg's testimony, he suggests that the Commission will  
17 be reversing precedent if it adopts the Company's price normalization procedure.  
18 Do you agree?

19 A. No. As I explained above, the Company's market price adjustment is an  
20 annualization of actual wholesale market price increases; it is not a normalization  
21 adjustment. To the best of my knowledge, the Commission has historically  
22 adopted annualization of known changes that occurred during the test period.

1           Therefore, acceptance of the Company's market price annualization proposal  
2           would be consistent with Commission precedent, not a departure from it as Mr.  
3           Falkenberg suggests.

4   Q.    Is Mr. Falkenberg's alternative recommendation to remove the impact of  
5           wholesale contracts that expired after the test period consistent with Utah  
6           regulatory practices?

7   A.    No. In the Company's last several rate cases, the Commission has strictly adhered  
8           to a historical test period and accordingly has excluded out of period adjustments  
9           from adopted results. For example, in Docket No. 99-035-10, the Commission  
10          did not allow the Company to begin recovery of Dave Johnston mine closure costs  
11          because the mine was fully operational during the test year. Mr. Falkenberg's  
12          proposal to remove wholesale contracts expiring after the end of the test year is  
13          just that: an out of period adjustment proposal.

14   Q.    If Mr. Falkenberg's proposal is adopted, would it be necessary to adopt other  
15          adjustments to maintain a balance between revenues and expenses?

16   A.    Yes. As Mr. Watter's explained in his rebuttal testimony, load growth has also  
17          been a factor in the Company's increased net power costs. Therefore, at a  
18          minimum, the Company's retail loads and allocation factors should also be  
19          updated to reflect the level in effect during the period of Mr. Falkenberg's  
20          proposed adjustment in order to maintain a proper matching of revenues and  
21          expenses.

1 Q. What is your position on Mr. Falkenberg's alternative recommendation to reduce  
2 net power costs for post test period expiring wholesale sales contracts?

3 A. The Commission should reject the proposed adjustment because the contracts  
4 were in effect during the test period and their elimination would create a  
5 significant mismatch between revenues and expenses.

6 Q. Mr. Chalfant suggests that the Company should file a rate case "after it has data  
7 that fully reflects what it argues are long-term changes in market prices, rather  
8 than to make incorrect adjustments to historical data." Do you agree?

9 A. No. As discussed by Ms. Clark, the significant cost increases experienced by the  
10 Company from high market prices have caused the Company to suffer credit and  
11 liquidity problems. Therefore, Mr. Chalfant's suggestion that the Company  
12 should wait for a test year that fully reflects higher market prices is not a  
13 reasonable solution.

14 Q. What is your recommendation to the Commission regarding the use of the  
15 annualized market prices?

16 A. The Commission should reject the adjustments proposed by Messrs. Falkenberg  
17 and Chalfant on the basis that annualization of known and measurable changes is  
18 part of the ratemaking process, and the annualization of the known changes in  
19 wholesale market prices is really no different from annualization of a contract  
20 price change.

21 **Short Term Market Activities - Chalfant**

1 Q. Please describe Mr. Chalfant's proposed adjustment for short-term market  
2 activities.

3 A. Mr. Chalfant proposes to reduce the Company's net power costs for perceived  
4 losses on short-term firm and non-firm sales and purchase transactions he  
5 calculated, based on an hourly model he developed. The adjustment would reduce  
6 the Company's net power costs by \$47.4 million on a Total Company basis.

7 Q. Do you agree with the proposed adjustment?

8 A. No. Although I agree conceptually with his proposal to measure the profitability  
9 of the transactions on a comparable basis, I do not agree with the proposed  
10 adjustment as calculated.

11 Q. Please explain.

12 A. On page 10 of his testimony, Mr. Chalfant recognized that it is imperative to  
13 compare relevant sales and purchase transactions on a comparable basis, not on a  
14 monthly or annual aggregated basis, to achieve a valid comparison. Specifically,  
15 he stated the following:

16 "It is critical to avoid time-related differences in comparisons of costs and  
17 revenues to be assigned to the power marketing function. For example, it  
18 would not be reasonable to compare a purchase made on a summer  
19 afternoon with a price of \$10 per MWh to a sale that was made on a winter  
20 night with a price of \$3 per MWh and conclude that the Company lost \$7  
21 on that pair of transactions. In fact, the Company may have been selling  
22 for \$12 per MWh at the same time the \$10 per MWh purchase was made,  
23 and purchasing for \$2.75 per MWh at the same time the \$3 sale was made.

24  
25 Using aggregate annual or monthly data on short-term sales and purchases  
26 implicitly involve such comparisons. Specifically, if purchases tend to  
27 occur more heavily during hours when market prices are high and sales  
28 tend to be made at hours when market prices are low, then comparing

1 average sales and purchase prices may not give an accurate picture of  
2 whether the Company's marketing activities are profitable".

3  
4 Q. Does Mr. Chalfant's proposed adjustment adequately calculate the profitability of  
5 the Company's market trading activities?

6 A. No. Despite Mr. Chalfant's effort to consider timing differences between  
7 transactions, his analysis does not adequately calculate the profitability of short-  
8 term transactions. There are five major changes that should be made to Mr.  
9 Chalfant's proposed adjustment to correct the inadequacies of his analysis. First,  
10 actual non-firm transactions should be excluded since retail rates are set on the  
11 basis of normalized non-firm sales and purchase transactions calculated by the  
12 Company's net power cost model. Second, Mr. Chalfant's proposed adjustment  
13 used October, November and December 2000 data in place of the same monthly  
14 data for 1999, which are part of the test period. The October-December 2000  
15 information is outside the test period, is not consistent with the rest of the  
16 Company's case, and therefore is not valid for use in this case. Third, the  
17 transactions should be reviewed based on the time they were executed in addition  
18 to an hourly comparison, because balancing the system is a continuous long-term  
19 process and market prices fluctuate from hour to hour, day to day, and month to  
20 month. Therefore, just comparing transactions on the delivery hour does not  
21 present an accurate comparison. Fourth, the transactions should be compared on a  
22 like-kind product basis. Fifth, the transactions should be compared on a similar  
23 location basis because of transmission constraints that exist in the Company's  
24 system.



1 Q. Have you revised Mr. Chalfant's analysis to reflect your proposed changes?

2 A. No, I have revised Mr. Chalfant's analysis only in part, since we have not been  
3 able to get his model to work. The Company requested a working version of the  
4 model so we could test the model and make appropriate changes if necessary, but  
5 we were provided a version that is not compatible with Company software. As a  
6 result, the only correction I was able to make was to replace the October –  
7 December 2000 data with the appropriate test period data from 1999. This  
8 partially revised analysis, which is summarized as Rebuttal Exhibit UPL\_\_5R  
9 (MTW-5R), reduces Mr. Chalfant's proposed adjustment to \$33 million on a  
10 Total Company basis. However, it should be noted that the correction produced  
11 by this revised analysis is incomplete because it still includes actual non-firm  
12 transactions, assigns the highest priced purchases to wholesale marketing and does  
13 not compare STF transactions on a date completed, comparable location or  
14 comparable product basis.

15 Q. Why is it so important to consider the date the transactions are completed?

16 A. The process of balancing the Company's system is a complex, ongoing process  
17 that starts well in advance of the actual delivery time. During the time leading up  
18 to delivery, the Company's load and resource balance can change frequently  
19 (higher or lower) due to a number of factors. Those factors include higher than  
20 expected retail load growth, unit outages, weather and hydro conditions. The  
21 Company generally makes both sales and purchases in advance of real time in an  
22 effort to keep loads and resources in balance at the lowest possible cost. Because

1 of this, it is imperative that transactions executed six months ago for delivery  
2 today are not compared with purchases executed very recently. For example, in  
3 December 1999 the Company expected a 300 aMW short position for July 2000  
4 based on the load and resource balance. To cover the shortfall, the Company  
5 prudently bought 300 aMW to balance the forecast position at then current market  
6 prices. Six months later, however, the Company's loads and resource situation  
7 changed, and the Company than anticipated a long position for July.  
8 Unfortunately, by that time, the region is also long, which causes market prices to  
9 drop. Nonetheless, because the Company found itself in a long position, it  
10 prudently sold energy at market prices that were now lower than the December  
11 1999 purchases. In this situation, unless the timing of the prudent transactions are  
12 taken into consideration, it will appear that the Company sold energy at a loss. In  
13 reality, both transactions were prudent because they were executed at market  
14 based upon expectations at the time of the transactions. The Company believes  
15 this approach to balancing its system is prudent and much better than the  
16 alternative approach, which leaves the bulk of system balancing to the very  
17 volatile day ahead and real time markets, as was previously done in the failed  
18 California deregulation attempt. Accordingly, it is essential that execution dates  
19 are taken into consideration as well as delivery time differences.

20 Q. Is the intermediate-term San Diego wholesale sale a good example of differences  
21 in execution dates and product types?

1 A. Yes. The San Diego wholesale sale contract is a perfect example of a transaction  
2 that is not comparable to transactions made during the test year and should be  
3 excluded from the STF profitability analysis. The sale was made on March 24,  
4 1997 for a four-year period from January 1998 through December 2001 at then  
5 prevailing market price expectations. It is clearly not reasonable to compare a  
6 transaction that was executed in March 1997 to a purchase transaction executed  
7 sometime in 2000.

8 Q. Did Mr. Chalfant treat the San Diego wholesale sale appropriately in his analysis?

9 A. Yes. Mr. Chalfant treated the sale as an intermediate term wholesale sale and  
10 excluded it from his loss calculation.

11 Q. Please explain why it is important to take into consideration product differences in  
12 any measure of short-term profitability.

13 A. Because of the Company's load profile, it is difficult to match loads and resources  
14 perfectly with single transactions. As a result, it generally takes multiple  
15 transactions to balance the Company's system for a given period. For example,  
16 during a typical summer day on the east-side, the Company is generally short  
17 during the peak or super-peak periods and long during the off-peak and shoulder-  
18 peak periods. This is illustrated on page 1 of Rebuttal Exhibit UPL\_\_6R (MTW-  
19 6R). When the Company purchases energy to cover its short position, there are  
20 generally two impacts. First, the shortage is covered by the most valuable  
21 component of the block purchase, the super peak period. Second, the Company is  
22 put in a long position, during the lower cost shoulder hours of the peak period,

1 because demand is lower during the shoulder hours. These impacts are illustrated  
2 on page 2 of Rebuttal Exhibit UPL\_\_6R (MTW-6R). In order to balance the  
3 system, the Company must then sell the lower value long position. In this  
4 example, a monthly comparison of these transactions would generally show a loss  
5 because the Company bought a higher value product to cover its short position  
6 and sold the leftover lower value product to balance the long created by the  
7 purchase that covered the short. Once again, in reality a loss was not incurred;  
8 rather, the Company merely balanced its system. This situation occurs very often  
9 in the Company's east-side system during the summer season and demonstrates  
10 why it is critical to do a more detailed analysis.

11 Q. Why is it also important to compare transactions on the same delivery point basis?

12 A. Because of transmission constraints on the Company's system, not all transactions  
13 are comparable. For example, the Company could be long on the west-side during  
14 the summer and deficit on the east-side. Transmission constraints prevent the  
15 Company from moving the entire surplus from the west-side to cover the deficit in  
16 the east. In order to balance the system, the Company must sell some energy in  
17 the lower priced west-side and buy some energy in the higher priced east-side at  
18 the same time. Once again, a comparison of those transactions would show a loss  
19 when in reality a loss was not incurred. Mr. Chalfant's compares these types of  
20 transactions in his analysis to determine profitability, when in fact they are not  
21 comparable.

1 Q. Can Mr. Chalfant's model be adjusted to exclude non-firm transactions and take  
2 into consideration comparable execution dates and delivery points?

3 A. I do not think so, although because we have been unable to get Mr. Chalfant's  
4 model to work, I cannot know for certain.

5 Q. Is there another alternative?

6 A. Yes. We can use the information from Mr. Falkenberg's loss on short-term  
7 purchases and sales analysis as a starting point and go through the process of  
8 sorting the STF transactions so that it can be analyzed on a comparable basis.  
9 Since Mr. Falkenberg's data only include east-side transactions and exclude non-  
10 firm transactions, we are part of the way there. First, as I explained above, the  
11 intermediate term San Diego sale must be removed from the results, since Mr.  
12 Falkenberg is including it as a short-term firm transaction. Then the remaining  
13 transactions must be compared on a like kind basis. In other words, the type of  
14 product, the execution dates, and delivery time of the transactions must be taken  
15 into consideration.

16 Q. Have you prepared such an analysis?

17 A. Yes. Rebuttal Exhibit UPL\_\_7R (MTW-7R) shows the impact of removing the  
18 San Diego Sale. Removing the longer term San Diego sale reduces Mr.  
19 Falkenberg's proposed adjustment to approximately \$47.0 million on a Total  
20 Company basis. For the remainder of the analysis, I have analyzed only the June  
21 and July data because they encompass the bulk of Mr. Chalfant's and Mr.  
22 Falkenberg's proposed adjustments and are sufficient to demonstrate that the

1           purported losses are not real. Page 1 of Rebuttal Exhibit UPL\_\_\_.8R (MTW-8R)  
2           summarizes the purported June losses from Rebuttal Exhibit UPL\_\_\_.7R (MTW-  
3           7R) between peak and off-peak transactions. This comparison reduces the  
4           purported losses for June from \$24 million to \$22.5 million or \$22 million on-  
5           peak and \$.5 million off-peak on a Total Company basis. Page 2 of Rebuttal  
6           Exhibit UPL\_\_\_.8R (MTW-8R) summarizes the data from page 1 by delivery day  
7           and breaks the information down between gains and losses. Page 3 of Rebuttal  
8           Exhibit UPL\_\_\_.8R (MTW-8R) recalculates the information from page 2 based on  
9           comparable delivery and execution dates. This shows that the purported level of  
10          losses drops to \$5.9 million for on-peak transactions and \$.4 million for off-peak  
11          transactions on a Total Company basis. Page 4 of Rebuttal Exhibit UPL\_\_\_.8R  
12          (MTW-8R) analyzes the losses of the four purported highest loss days shown on  
13          page 3 by comparable delivery points. This analysis shows that when comparable  
14          delivery points are taken into consideration all of the purported losses occurred at  
15          the Four Corners delivery point. Page 5 of Rebuttal Exhibit UPL\_\_\_.8R (MTW-  
16          8R) analyzes the Fours Corners transactions from page 4 that generated the losses.  
17          This data shows that the purported losses are reduced from over \$5 million to zero  
18          when the transactions are reviewed on an hourly basis.

19                   Rebuttal Exhibit UPL\_\_\_.9R (MTW-9R) shows similar information for  
20          July. Page 1 of Rebuttal Exhibit UPL\_\_\_.9R (MTW-9R) summarizes the  
21          purported July losses from Rebuttal Exhibit UPL\_\_\_.7R (MTW-7R) between peak  
22          and off-peak transactions. This comparison reduces the purported losses for July

1 to a \$4.5 million net monthly gain from a \$6 million monthly loss when the  
2 transactions are broken down between peak and off-peak transactions, or to a \$7.3  
3 million on-peak gain and \$2.8 million off-peak loss on a Total Company basis.  
4 Page 2 of Rebuttal Exhibit UPL\_\_\_.9R (MTW-9R) summarizes the data from page  
5 1 by execution day for the off-peak transactions. This data reduces the purported  
6 off-peak losses from \$2.7 million to \$.8 million. Page 3 of Rebuttal Exhibit  
7 UPL\_\_\_.9R (MTW-9R) recalculates the information from page 2 based on  
8 comparable delivery and execution dates and delivery points. This data shows  
9 that almost all of the purported off-peak losses were related to Four Corners  
10 transactions, as was the case in June. Page 4 of Rebuttal Exhibit UPL\_\_\_.9R  
11 (MTW-9R) analyzes the Fours Corners transactions from page 3 on an hourly  
12 basis. This information shows that the purported losses are reduced from \$.8  
13 million to .05 million when the off-peak transactions from page 3 that generated  
14 the purported losses are reviewed on an hourly basis. In conclusion, the analyses  
15 from Rebuttal Exhibit UPL\_\_\_.8R (MTW-8R) and Rebuttal Exhibit UPL\_\_\_.9R  
16 (MTW-9R) demonstrates that when the short-term firm transactions for June and  
17 July 2000 are analyzed on a fully comparable basis, there are no material losses.

18 Q. What is your recommendation?

19 A. As I described above, Mr. Chalfant's proposed adjustment does not adequately  
20 measure the profitability of the Company's market trading activities. When the  
21 Company's market trading transactions are analyzed on a comparable basis, the  
22 analysis demonstrates the Company did not incur net trading losses. Therefore,

1 the Commission should reject Mr. Chalfant's proposed adjustment for short-term  
2 market activities.

3 **Losses on Short-Term Purchases and Sales - Falkenberg**

4 Q. Please explain Mr. Falkenberg's proposed short-term loss adjustment.

5 A. Mr. Falkenberg's proposes to compare the average annual price of short-term firm  
6 purchases and short-term firm sales made in the Utah Division. Mr. Falkenberg  
7 assumes that there is a loss when the annual average purchase price is higher than  
8 the annual average sales price. His adjustment proposes to eliminate the  
9 purported losses by setting the monthly purchase price equal to the monthly sales  
10 price. The proposed adjustment would reduce net power costs by approximately  
11 \$71 million on a Total Company basis.

12 Q. Do you agree with the proposed adjustment?

13 A. No. Mr. Falkenberg proposes a simplistic method to determine the profitability of  
14 short-term firm transactions that does not adequately measure the profitability of  
15 transactions under taken to handle the complex process of balancing and  
16 optimizing the Company's system. As Mr. Chalfant correctly observed,

17 "it is critical to avoid time-related differences in comparisons of costs and  
18 revenues".

19  
20 Mr. Falkenberg's proposed adjustment uses a simple average method that does not  
21 take into account time and product related differences. Therefore, it does not  
22 provide a meaningful comparison and should be rejected by the Commission.

23 Q. Have other witnesses beside you and Mr. Chalfant recognized the importance of  
24 the time period issue?



1 A. Yes. As a matter of fact, Mr. Falkenberg’s colleague on behalf of DPU and CCS  
2 in this case, Mr. Hayet, has recognized this issue. On page 26 of his testimony he  
3 stated:

4 “Schedules of energy, as well as the cost of that energy are typically very  
5 different depending on the time period”.

6  
7 Given Mr. Hayet’s understanding of this issue, it is curious that Mr. Falkenberg  
8 continues to rely on the simple average method.

9 Q. Mr. Falkenberg’s proposed adjustment for losses on short-term purchases and  
10 sales is very similar to Mr. Chalfant’s proposed adjustment for short-term market  
11 trading activities. Does your rebuttal of Mr. Chalfant’s testimony also apply to  
12 Mr. Falkenberg’s proposed adjustment?

13 A. Yes. As I explained above, I used Mr. Falkenberg’s proposed adjustment for  
14 losses on short-term purchases and sales as the starting point for the analysis I  
15 used in my rebuttal of Mr. Chalfant’s testimony. That analysis demonstrates there  
16 are no net short-term losses when the Company’s short-term firm transactions are  
17 reviewed on a comparable basis. This same analysis applies to Mr. Falkenberg’s  
18 proposed adjustment and provides justification for my recommendation that the  
19 Commission reject Mr. Falkenberg’s proposed adjustment.

20 Q. On page 27 of Mr. Falkenberg’s testimony, he stated that his proposed loss  
21 adjustment would decrease the Company’s proposed net power costs by \$198  
22 million on a Total Company basis if the Company’s proposed market prices are  
23 used. Do you agree?

1 A. No. I find his suggestion rather amusing. The Company uses actual information  
2 for the months from June 2000 through September 2000, and uses annualized  
3 market prices for October 1999 through May 2000. In the annualized months, the  
4 Company uses the same monthly peak and off-peak prices for sales and purchases  
5 in respective markets. As I have discussed above, there are no net losses for the  
6 actual months. There are certainly no losses implied in the annualized months.  
7 For example, if the on-peak market price was \$100 per MWh at COB for a given  
8 month, the Company uses the same price for on-peak sales and purchases.  
9 Therefore, there are no net losses for these months included in the Company's  
10 filing. Yet, Mr. Falkenberg states that losses would be even greater if the  
11 Company's proposed market prices are adopted by the Commission.~~Mr.~~  
12 Falkenberg's alternative proposed adjustment is clearly not correct for the months  
13 October 1999 through May 2000 and for June 2000 through September 2000, as I  
14 have demonstrated above. The Commission should reject Mr. Falkenberg's  
15 alternative proposed adjustment if the Company's proposed market prices are  
16 adopted.

17 Q. Do you have any further comments on Mr. Falkenberg's proposed loss adjustment  
18 for STF transactions?

19 A. Yes. I find it rather interesting that Mr. Falkenberg did not propose the same  
20 adjustment in the Company's recent Oregon UE 116 case, given the fact that the  
21 method he proposes in this case would have yielded similar results in that case.

1 The absence of a similar proposal in that jurisdiction strongly suggests the  
2 adjustment is of questionable validity.

3 **Thermal Availability - Falkenberg**

4 Q. Please explain Mr. Falkenberg's proposed adjustment for thermal availability.

5 A. Mr. Falkenberg proposes to change the four-year average thermal availability  
6 calculation that has been used since 1990 in Utah, to a six year average because of  
7 a claimed dramatic increase in outage rates compared to earlier years. The  
8 proposed adjustment would reduce the Company's net power costs by \$15.3  
9 million on a Utah allocated basis.

10 Q. Do you agree with the proposed adjustment?

11 A. No. As I will demonstrate, the Company's thermal performance has been and  
12 continues to be very good. Mr. Falkenberg's proposed adjustment is based on  
13 misleading accusations and data manipulation, and would result in a double count  
14 of benefits already received by Utah ratepayers. The real reason for the significant  
15 increase in net power costs is not changes in thermal generation, as suggested by  
16 Mr. Falkenberg, but is caused by the exorbitant market prices the WSCC has been  
17 experiencing.

18 Q. Do you agree with Mr. Falkenberg's claim on page 31 of his testimony that the  
19 Company's unscheduled outages have increased significantly?

20 A. No. Mr. Falkenberg's statement that the Company's unscheduled outage rates  
21 have increased by 50% from 1994 to 1999 is nothing more than a mathematical  
22 exercise using selective data. The Company's forced outage rates from 1991

1           though 2000 are shown on Rebuttal Exhibit UPL\_\_\_.10R (MTW-10R). The forced  
2           outage rate represents the percent of time a unit is unexpectedly forced out of  
3           service. As shown, the Company's forced outage rates increased from 3.73% in  
4           1994 to 5.63% in 1999, the period used in Mr. Falkenberg's analysis or an overall  
5           small increase of 1.90%. Of course, Mr. Falkenberg's method would divide a  
6           small number, 5.63% in 1999, by another even smaller number, 3.73% in 1994, to  
7           produce a 50% increase. On the other hand, if Mr. Falkenberg's method is  
8           modified by using 5.50% from 1993 -- just one year earlier -- and the same 5.63%  
9           from 1999, the percentage change would only be 2.3% compared to the 50% used  
10          in his testimony. Using the Company's proposed method the percentage change  
11          would only be .13% from 1993 to 1999. Thus, Mr. Falkenberg's suggested  
12          dramatic increase in unscheduled outages has more to do with the timing and  
13          presentation of information than it does about the Company's actual performance.

14    Q.    How does the Company's thermal performance compare to the National average?

15    A.    As shown on Rebuttal Exhibit UPL\_\_\_.11R (MTW-11R), the Company's thermal  
16          availability and capacity factors have exceeded the national average for  
17          comparable sized units for nine straight years by a large margin.

18    Q.    Have there been any dramatic changes in the Company's thermal performance as  
19          Mr. Falkenberg infers?

20    A.    No. As shown on Rebuttal Exhibit UPL\_\_\_.10R (MTW-10R) and Rebuttal Exhibit  
21          UPL\_\_\_.11R (MTW-11R), the Company's thermal performance has been very

1 good for the last 10 years and has only fluctuated within a reasonable range from  
2 year to year.

3 Q. Is there anything compelling about using a six-year period to develop an average  
4 for thermal availability?

5 A. No. Mr. Falkenberg has not presented any compelling justification. As the data I  
6 discussed above shows, the use of a six year average is nothing more than data  
7 manipulation. On the other hand, the Company has always used a rolling four-  
8 year average regardless of whether or not the availability factors have gone in the  
9 Company's favor. The purpose of a four-year rolling average is to smooth year-  
10 to-year swings in generation levels, which it does. Average thermal availability  
11 should not be revised periodically to counter balance other cost increases, such as  
12 market prices.

13 Q. Have you reviewed Mr. Falkenberg's Exhibit RJF/8?

14 A. Yes. This is another example of misleading information. Mr. Falkenberg's  
15 analysis only shows half of the picture. The analyses he prepared shows only the  
16 impact of changing thermal availability while keeping market prices the same as  
17 the Company's filed case (which, by the way, he is not proposing to use). What  
18 he should have done was also determine the impact of the changes in thermal  
19 availability with lower market prices. Rebuttal Exhibit UPL\_\_12R (MTW-12R)  
20 shows the current case net power cost results if 1997 and 1998 market prices are  
21 used with availability factors for each of the years 1994 through 1999, compared  
22 with the runs that Mr. Falkenberg made for the comparable years. The data

1 clearly shows that when a lower price level is used the changes in generation  
2 levels have a limited impact on overall net power costs. For example, using the  
3 market prices from the Company's 1997 Utah stipulation shows that the  
4 difference between a four-year average and a six-year average only produces a  
5 Total Company difference of \$8.1 million. Using the adopted market prices from  
6 Docket No. 99-035-10 produces a difference of \$12.8 million. In comparison, Mr.  
7 Falkenberg's Exhibit RJF/8 which uses the much higher market prices included in  
8 the Company's filing, produces an \$82.3 million difference between four and six-  
9 year averages. This clearly demonstrates that the main driver of the increase in  
10 net power costs is market prices, not thermal availability.

11 Q. Earlier you mentioned that Mr. Falkenberg's proposal would result in double  
12 counting. Please explain.

13 A. The stipulation in the Company's 1997 test year Utah rate case utilized a four year  
14 average for thermal availability that was based on 1994 through 1997 data. The  
15 1998 test year rate case, in turn, utilized a four-year average for thermal  
16 availability that was based on 1995 through 1998 data. Now Mr. Falkenberg  
17 proposes to go back in time and add the 1994 and 1995 data to the current case so  
18 Utah customers can receive the benefits of the Company's excellent record of  
19 thermal availability for a second time, to provide relief during a period with much  
20 higher market prices. The Commission should not allow this to happen.

21 Q. On page 32 of his testimony, Mr. Falkenberg states that the Company believes  
22 there is no permanent trend in its outages. Is this an accurate statement?

1 A. Although his statement is technically correct, it is incomplete. The Company also  
2 stated that thermal units are mechanical units that are put under a great deal of  
3 stress through their operation and are expected to break down, although it cannot  
4 be known when it is going to happen. That is why they are unexpected single  
5 occurrence events and why we stated that there is no permanent trend. As shown  
6 on Rebuttal Exhibit UPL\_\_\_.10R (MTW-10R), forced outage rates vary from year  
7 to year, sometimes up and sometimes down. Contrary to Mr. Falkenberg's claim  
8 that the Company's current outage performance is unacceptable, in reality, it is not  
9 much different than it has been over the last 10 years. The four-year average (96-  
10 99) was 4.62% and the ten-year average (91-00) was 4.48%

11 Q. Mr. Falkenberg discusses a modeling change recommended by Mr. Hayet that  
12 would result in multiple year runs with individual year thermal availability rates  
13 that would be averaged to determine normalized net power costs. Do you have a  
14 view on this approach?

15 A. Yes. It should be noted that Messrs. Falkenberg and Hayet are not proposing this  
16 methodological change for this case. In my view, the issue should not be pursued  
17 on this basis in the future either, given the time consuming modeling required to  
18 address the issue properly. Rather, the issue should be addressed in the context of  
19 a new net power cost model, on which the Company is currently working.

20 Q. What is your recommendation regarding Mr. Falkenberg's proposed thermal  
21 availability adjustment?

1 A. Given the fact that the Company's thermal plant performance has been and  
2 continues to be very good and the real driver for the increased net power costs is  
3 market prices, there is no sound justification for moving to a six-year average.  
4 Moreover, Mr. Falkenberg's proposed adjustment would result in a double  
5 counting of benefits previously received by Utah customers. The Commission  
6 should therefore reject the proposed thermal availability adjustment.

7 **Capacity Rating / Spinning Reserve Issues - Falkenberg**

8 Q. Please explain Mr. Falkenberg's proposed capacity rating / spinning reserve issues  
9 adjustment.

10 A. The proposed adjustment has three parts: (1) Wyodak capacity rating, (2) Gadsby  
11 capacity rating, and (3) spinning reserves. Mr. Falkenberg states that based on his  
12 analysis, the Company has understated the capacity of the Company's Wyodak  
13 and Gadsby plants and that the Company does not lose as much generation to  
14 spinning reserves as the Company has modeled. Based on these assumptions, he  
15 proposes to increase the generation levels for Wyodak and Gadsby and reduce the  
16 amount of spinning reserves the Company has modeled. The adjustment would  
17 reduce the Company's net power costs by \$16.5 million on a Total Company  
18 basis.

19 Q. Do you agree with Mr. Falkenberg's proposed adjustments?

20 A. No. The Company has not understated the MWh generation associated with the  
21 Wyodak and Gadsby thermal units. Nor has the Company overstated the amount  
22 of spinning reserves required for the east-side of the Company's system. As a



1 matter of fact, the Company's net power cost modeling has, if anything,  
2 *understated* the annualized level of spinning reserve requirements.

3 Q. On page 40 of Mr. Falkenberg's testimony, he states that in the Oregon case, the  
4 Company conceded that the rating for Colstrip is understated in its net power cost  
5 model and the results are similar for Wyodak. Is this statement correct?

6 A. No. In the Oregon UE 116 case, the Company did understate the capacity ratings  
7 for Colstrip 3 and 4, because an old capacity rating was inadvertently used, as it  
8 was in this case. As I explained above, the Colstrip rating has been corrected.  
9 However, Wyodak generation levels are not understated. The Company is using  
10 the current maximum dependable capacity (MDC) rating for Wyodak.

11 Q. Please explain Mr. Falkenberg's proposed adjustment for Wyodak.

12 A. Based upon Mr. Falkenberg's review of Wyodak generation logs, he concluded  
13 that the unit exceeded the 268 MW MDC rating for more than 7000 hours during  
14 2000. As a result, he proposes to increase the MDC rating of Wyodak by 14 MW  
15 based on the highest 500 hours of operation for purposes of modeling net power  
16 costs as part of his overall capacity adjustment.

17 Q. Is it reasonable to set the MDC rating of a generation unit based on the 500  
18 highest hours of operation?

19 A. No. This is not a reasonable reference point, as it measures the highest output a  
20 unit has achieved for less than six percent of the hours in a year under optimal  
21 conditions. The Company sets generating units MDC at a level that represents the  
22 net generation that can be expected to be achieved on a normal ongoing basis.

1 This is very important from a system operation perspective because the Company  
2 needs to know how much energy can be expected under normal conditions, so an  
3 operating plan can be developed to meet load obligations in the least cost manner.  
4 If ratings were based on the 500 highest hours of generation as Mr. Falkenberg  
5 suggests, operating plans would be unreliable.

6 Q. Do you agree with Mr. Falkenberg's basic premise that a higher MDC rating will  
7 result in higher net output from a generation unit?

8 A. No. Mr. Falkenberg's assumption that higher MDC ratings equate to a higher  
9 level of net generation is wrong. Operating Equivalent Availability Factors and  
10 the MDC ratings used in the Company's production dispatch model are not  
11 independent variables, as Mr. Falkenberg's proposed adjustment suggests.  
12 Operating Equivalent Availability Factors are calculated based on each unit's  
13 MDC rating. Therefore, if the MDC rating is revised, the associated availability  
14 factor must also be revised. When the availability factor is changed to correspond  
15 with the new higher MDC rating, the result is a lower availability factor because  
16 the unit cannot achieve the new rating for the same number of hours and the result  
17 is the same net output from the unit. On this basis alone Mr. Falkenberg's  
18 proposed adjustment should be rejected.

19 Q. Please explain Mr. Falkenberg's proposed Gasdby adjustment.

20 A. Mr. Falkenberg proposes to allow the model to determine how much Gadsby  
21 should run based on historical availability factors and market prices. The  
22 adjustment is incorporated in his overall proposed capacity adjustment.

1 Q. Do you agree with Mr. Falkenberg's proposed adjustment for Gadsby?

2 A. No. The adjustment is not reflective of how the Company actually operates the  
3 Gadsby units. Mr. Falkenberg's proposed modeling suggests that the Gadsby  
4 units would run at an unrealistic 63% capacity factor, which is totally out of line  
5 with actual experience. For example, during the period May 2000 through March  
6 2001, a period with market prices higher than those included in the Company's  
7 case, the Gadsby units only ran at a 48% capacity factor or 15% less than Mr.  
8 Falkenberg proposes.

9 Q. Can you explain why Mr. Falkenberg's modeling causes the plants to run at such  
10 an unrealistically high capacity factor?

11 A. Yes. Apparently Mr. Falkenberg's approach does not reflect the absence of any  
12 market for Gadsby generation during off-peak hours. Unless the model inputs  
13 controlling Gadsby's generation are constrained, the model will "run" Gadsby too  
14 much.

15 Q. On page 41 of Mr. Falkenberg's testimony, he states that you have removed  
16 Gadsby units 1 and 2 from the dispatch for all but three summer months and infers  
17 that this results in an improper level of generation for the Gadsby units in total.  
18 Do you agree?

19 A. No. The Company's modeling of Gadsby resulted in an overall generation level  
20 that is conservative when compared to recent history. For example, under the  
21 Company's modeling approach, the Gadsby units ran at an overall capacity factor  
22 of 49% compared to the 48% capacity factor the units actually ran during a recent

1 high market price period. In regards to Mr. Falkenberg's claim about the  
2 availability of Gadsby units 1 and 2, the inputs to the Company's model do *not*  
3 show that the units have been removed from dispatch for all but three summer  
4 months. I cannot determine the basis for his statement, but it is incorrect.

5 Q. Should the Company's modeling of Gasdby be adjusted for spinning reserves?

6 A. Yes. I will address that issue in the context of my rebuttal of Mr. Falkenberg's  
7 spinning reserve proposal.

8 Q. What is your recommendation for Mr. Faleknberg's proposed Gadsby modeling  
9 changes as they relate to the overall MWh generation of the units?

10 A. The Company's proposed modeling of Gadsby produces results that are  
11 conservatively representative of the actual operation of Gadsby, unlike Mr.  
12 Falkenberg's proposed modeling. Therefore, the Commission should reject Mr.  
13 Falkenberg's proposed Gadsby capacity adjustment.

14 Q. Mr. Falkenberg states that the Company does not lose generation as a result of  
15 spinning reserve requirements. Do you agree?

16 A. No.

17 Q. Please explain spinning reserves.

18 A. The North American Electric Reliability Council (NERC) requires all companies  
19 with generation to carry operating reserves of 5 percent for operating hydro  
20 resources and 7 percent for operating thermal resources. One-half of these  
21 reserves must be spinning. Spinning reserves are the amount of capacity that can  
22 be ramped up in a 10-minute period. NERC and WSCC require companies with

1 generation to carry spinning reserves to protect the WSCC system from cascading  
2 loss of generation or transmission lines, uncontrolled separation and interruption  
3 of customer service.

4 Q. On page 38 of Mr. Falkenberg's testimony, he states that spinning reserves are  
5 usually accounted for by dispatching more generating units at any point in time  
6 than is required to serve load and not by reducing the capacity of individual units.  
7 Do you agree with his conclusion?

8 A. Yes, I agree that the actual capacity of a unit does not change due to spinning  
9 reserve requirements. However, Mr. Falkenberg fails to explain why more  
10 generating units need to be dispatched than required.

11 Q. Please explain.

12 A. Let's assume that a unit has a capacity of 100 MW and the load at a particular  
13 point in time is 100 MW. Without a spinning reserve requirement, that one  
14 generating unit would be enough to cover the load. However, with a spinning  
15 reserve requirement on the unit of 3.5 percent, (i.e., the unit is required to  
16 withhold 3.5 MW for emergencies), the energy output from the unit can only be  
17 96.5 MW. To cover the rest of the 3.5 MW load, additional energy needs to be  
18 either generated or purchased. When the 100 MW unit is the most expensive unit  
19 of the total system and there is no other unit available, the additional energy has to  
20 be purchased from the market. This demonstrates that the capacity rating of the  
21 unit does not change due to spinning reserve requirements, but the effect on its  
22 output is comparable to a derating of available capacity.

1 Q. Mr. Falkenberg claims that more generating units than necessary are dispatched to  
2 account for spinning reserves. Is this point applicable to this case?

3 A. No. Given the huge disparity between the high market prices and the low fuel  
4 cost of the Company's units, the Company's thermal plants run almost all the  
5 time, with a few exceptions (such as Gadsby during off-peak hours). Mr.  
6 Falkenberg's colleague in this case, Mr. Hayet, recognized this. On page 23 of his  
7 testimony he stated:

8 "In PacifiCorp's normalized net power cost case, the annual average cost  
9 for its plants ranges from \$5.21/MWH for the Dave Johnston plant to  
10 about \$42/MWH, for the Gadsby plant, while the cost of purchasing from  
11 the wholesale market is over \$100/MWH. This is quite a disparity, and  
12 effectively results in the PacifiCorp units operating at the maximum  
13 capacity all of the time".  
14

15 Therefore, additional generation units are not available to be brought on-line to  
16 handle spinning reserves, as Mr. Falkenberg suggests.

17 Q. On page 38 of Mr. Falkenberg's testimony, he states that hydro resources  
18 sufficiently satisfied the Company's spinning reserve requirements in its Western  
19 system. Is that a true statement?

20 A. The statement is generally true, although there are times when west-side spinning  
21 reserves are carried on thermal units. This provides a significant level of benefits  
22 to the Company's customers because it lowers the Company's overall net power  
23 costs.

24 Q. Is the Company able to carry some of its east-side spinning reserve requirements  
25 on the West-side hydro resources?

1 A. Yes. Through a transmission contract with Idaho Power, the Company is also  
2 able to cover a portion of its east-side spinning reserve requirements from western  
3 hydro resources, when available and within transmission constraints. For this  
4 reason, the Company does not have to carry the full amount of NERC-required  
5 spinning reserves on its East- side thermal units and net power costs are lower  
6 than they would otherwise be. Nonetheless, the Company must still carry  
7 spinning reserves on its east-side resources because it does not have similar hydro  
8 capabilities on the east-side of its system.

9 Q. Do you have any response to Mr. Falkenberg's discussion of the spinning reserve  
10 issue from prior Company cases?

11 A. Yes. Spinning reserves has been a difficult issue for the Company in prior cases  
12 because it did not record spinning reserve information on a real time basis.  
13 Previously, the Company was required to perform after the fact analysis with data  
14 that required assumptions on the Company's part. As a result, the Company was  
15 more willing to agree to positions proposed by Mr. Falkenberg, at that time.  
16 However, that is not the case anymore.

17 Q. Please explain.

18 A. The Company developed a program that records the Company's actual assigned  
19 spinning reserves on a real time basis.

20 Q. What conclusions do you draw from such records, and how does actual spinning  
21 reserve compare with what is assumed in the Company's filed net power costs?

1 A. For the 12-month period from February 2000 to January 2001, shown on Rebuttal  
2 Exhibit UPL\_\_\_.13R (MTW-13R), the average actual spinning reserve for the  
3 Company's Eastern system was 70 MW. In this case, the Company used an  
4 average of 72 MW for spinning reserves. Further, the amount of reserves  
5 assumed in the Company's model is conservative because an adjustment was not  
6 made to withhold capacity from other units, when a unit that is assigned to carry  
7 spinning reserve is on maintenance.

8 Q. Has Mr. Falkenberg also changed his positions on spinning reserves?

9 A. Yes, Mr. Falkenberg has changed his opinion on spinning reserves several times  
10 recently. During the 1998 Oregon rate case (UE 111) and 1998 Utah rate case  
11 (Docket No. 99-035-10), he modeled east-side spinning reserves at 30 MW on the  
12 Company's Cholla facilities. During the recently completed Oregon UE 116 case,  
13 however, Mr. Falkenberg originally stated that the Company loses very little  
14 generation due to spinning reserves and proposed to model only 6 MW of  
15 spinning reserves for the Company's east side resources. Then during the  
16 surrebuttal phase of the Company's Oregon UE-116 rate case, he once again  
17 revised his proposed spinning reserves, this time from 6 MW to 45 MW for east  
18 side resources. Of course, his current proposed modeling still understates the  
19 Company's east side spinning reserve requirements.

20 Q. Mr. Falkenberg claims that the 30 MW of capacity derating on Cholla is not  
21 justified based on his examination of the Company's most recent generator logs.  
22 Do you agree?



1 A. No. The spinning reserves utilized in the normalized net power cost calculations  
2 are based on the assumption that they are normally carried on the most expensive  
3 units on the Company's system. Actual spinning reserves are carried on different  
4 units because of system constraints, forced outages, maintenance and market  
5 opportunities. Mr. Falkenberg correctly points out that Cholla did not actually  
6 carry 30 MW of spinning reserve. However, he chooses not to acknowledge the  
7 fact that a portion of the spinning reserve requirements were put on other less  
8 expensive units (such as Carbon and Naughton 1 and Naughton 2) which are  
9 modeled to carry very little if any spinning reserves.

10 Q. Mr. Falkenberg asserts that the Company has overstated by as much as 75% the  
11 impact of spinning reserve requirements on the availability of generation from the  
12 thermal resources. Has he explained the basis of his assertion?

13 A. No, Mr. Falkenberg's direct testimony does not contain any support for this claim.

14 Q. Earlier you mentioned that the annual modeled level of spinning reserves is  
15 consistent with the actual level of assigned spinning reserves. Is the actual test  
16 period level really the appropriate level to model?

17 A. No. The actual test period level is not consistent with the amount of spinning  
18 reserves that the Company carries during high market price periods. This reason  
19 is more thermal units are dispatched and the portion of the reserve covered by the  
20 west-side resources may no longer be there during periods of high market prices.  
21 As shown on Rebuttal Exhibit UPL\_\_13R (MTW-13R), there was a profound  
22 increase in the level of spinning reserves carried on the Company's east side

1 resources when market prices increased so dramatically in June 2000. As a result,  
2 the increase in the level of spinning reserves carried by the Company during  
3 periods of high market prices should be annualized to reflect this in period cost  
4 increase. In addition, I agree with Mr. Falkenberg that the Gadsby modeling  
5 should be adjusted to reflect more reserves being carried on the Gadsby units as a  
6 result of higher market prices. However, this change does not increase the overall  
7 generation levels of the Company's units, which remain consistent with the actual  
8 operation of Gadsby during a period of high market prices, whereas Mr.  
9 Falkenberg's modeling does not. I also adjusted spinning reserves, to put  
10 spinning on other units when units assigned to carry spinning reserves are on  
11 maintenance. This revision lowers the Company's net power costs by  
12 approximately \$3.5 million on a Total Company basis.

13 Q. What is your recommendation for the net power cost modeling of required  
14 spinning reserves?

15 A. I recommend that Mr. Falkenberg's adjustment regarding spinning reserve should  
16 be rejected. The Company's revised level of spinning reserves is reasonable  
17 because it is representative of the Company actual operations and is consistent  
18 with the general rule of using higher cost units for reserves.

19 **SMUD - Falkenberg**

20 Q. Please explain Mr. Falkenberg's proposed SMUD adjustment.

21 Q. As a result of the cancellation of a non-regulated nuclear project, the Company  
22 entered into a series of complex transactions that resulted in the Company

1 acquiring the firm rights to power from BPA in the future. Subsequently, the  
2 Company sold the non-regulated firm energy rights to SMUD for a \$94 million  
3 payment and later accepted the firm rights to power back as a concession for a  
4 sale to SMUD at a rate that was below the then current rate for power. Mr.  
5 Falkenberg proposes to adjust the SMUD contract price to the test period price of  
6 the SCE wholesale sales contract and believes this treatment is consistent with the  
7 treatment adopted in Docket No. 99-035-10. This adjustment reduces the  
8 Company's net power costs by \$11.5 million on a Total Company basis.

9 Q. Does the order from Docket No. 99-035-10 suggest that the Commission's intent  
10 was to impute SMUD revenues based on the SCE contract during each test year?

11 A. No. If that were the case, the price utilized in the revenue imputation from Docket  
12 No. 99-035-10 would have been \$49.42 per MWh, the actual SCE price in 1999.  
13 However, the price adopted by the Commission for revenue imputation was  
14 \$37.00 per MWh. The \$37 per MWh represented the expected SCE sale price for  
15 the first year the renegotiated SCE contract was in effect. The adopted results  
16 therefore do not suggest that the Commission intended to have the price  
17 imputation change yearly based on the actual SCE contract price for each  
18 successive test year, as proposed by Mr. Falkenberg.

19 Q. Does the Company believe the renegotiated SCE contract is contemporaneous  
20 with the SMUD sales contract?

1 A. No. The Company does not believe the renegotiated SCE contract is  
2 contemporaneous with the SMUD contract. As DPU witness Mr. Burrup testified  
3 in Docket No. 99-035-10:

4 “the Southern California Edison contract was renegotiated and is not  
5 contemporaneous with 1985, which is the SMUD rate”.

6  
7 The Company agrees with this point of view.

8 Q. Please explain.

9 A. The pricing changes made in the renegotiated contract were the result of changes  
10 that took place in the market about eight years after the original SCE contract was  
11 negotiated. From SCE’s perspective, it wanted revised pricing terms that would  
12 provide what it thought would be more price stability than the original contract.  
13 Fortunately for customers, prices have increased quite a bit as a result of the  
14 pricing terms agreed to in late 1995. Therefore, the current terms and price of the  
15 SCE contract are not comparable to the SMUD contract and should not be used  
16 for the purpose of imputing revenues for the SMUD contract.

17 Q. Would the use of the test period SCE contract price for revenue imputation fit the  
18 Commission’s reasoning for using a contemporaneous contract?

19 A. No. In the Commission’s Order in Docket No. 99-035-10 the following statement  
20 was made:

21 “As we have said elsewhere, such a judgement should be made in light of  
22 circumstances existing at the time. This view continues to be appropriate  
23 and we will apply it in this Docket”.

24  
25 The renegotiated SCE contract cannot be considered to be contemporaneous with  
26 the SMUD contract given that the pricing terms were revised to be representative

1 with conditions at the time the contract was renegotiated in 1995, or some eight  
2 years later.

3 Q. Is other information available that demonstrates the renegotiated SCE contract is  
4 not contemporaneous with the SMUD contract?

5 A. Yes. Based on the terms of the renegotiated SCE contract, the price is expected to  
6 be almost \$80 per MWh in 2001 because the energy price component is escalated  
7 based on the annual change in the Southern California border price of gas. The  
8 annual effect of this adjustment would be approximately \$22 million or 25% of  
9 the \$94 million payment received by the Company, with 13 years remaining on  
10 the contract. Clearly, the method proposed by Mr. Falkenberg would over  
11 compensate customers. In addition, it should be noted that the Company did not  
12 have any wholesale sales contracts that were indexed to gas prices prior to 1995.

13 Q. Has the Company had an opportunity to renegotiate the terms of the SMUD  
14 contract?

15 A. No. Unlike the circumstances associated with the SCE renegotiation, SMUD has  
16 not been interested in renegotiating its contract.

17 Q. Is the amount of the revenue imputation adjustment using \$37 per MWh  
18 consistent with treatment being utilized in other states?

19 A. Yes. The stipulated adjustment between the Company and OPUC Staff in UE 116  
20 is \$2.75 million on an Oregon allocated basis. Using \$37 per MWh to impute  
21 revenue results in a \$2.9 million adjustment on a Utah allocated basis. This is the  
22 adjustment the Company has made in its original filing. In contrast, Mr.

1 Falkenberg's proposed adjustment is significantly higher (\$4.3 million on a Utah  
2 allocated basis, or \$1.4 million higher than the Company's own adjustment).

3 Q. What is your recommendation for the regulatory treatment of the SMUD contract?

4 A. The renegotiated SCE contract is not contemporaneous with the SMUD contract,  
5 and should not be used as the basis for an adjustment. The continued use of the  
6 \$37 per MWh imputation price adopted in Docket No. 99-035-10 continues to  
7 provide a reasonable outcome. Further, while the stipulation between the  
8 Company and OPUC Staff in UE 116 does not establish a precedent, it does  
9 provide a reasonable benchmark that demonstrates the excessive size of Mr.  
10 Falkenberg's proposed adjustment. For these reasons, the Commission should  
11 reject Mr. Falkenberg's proposed adjustment.

12 **Extraordinary Outages (Cholla 4) - Falkenberg**

13 Q. Please explain Mr. Falkenberg's proposed adjustment for 1996 Cholla 4 outage.

14 A. Mr. Falkenberg proposes to remove a 1996 outage at the Company's Cholla 4  
15 generating plant as a consequence of the Commission allowing the Company to  
16 defer replacement power costs associated with the Company's Hunter 1 failure.

17 Q. Do you agree with his proposed adjustment?

18 A. No. I disagree for two primary reasons. First, the Commission's approval of the  
19 Company's deferred accounting application for the November 2000 Hunter 1  
20 failure has nothing to do with the 1996 Cholla 4 overhaul outage. Further, the  
21 Company has not received approval to recover the deferred replacement power  
22 costs at this time. Second, the Company did not file to recover replacement power

1 costs associated with the Cholla 4 overhaul outage. Of course, had the Company  
2 recovered replacement power costs for the overhaul outage, it would have been  
3 appropriate to exclude it from the Company's normalized thermal availability  
4 calculation. However, that is not the case.

5 Q. Was the Cholla outage similar to the Hunter 1 outage as Mr. Falkenberg has  
6 suggested?

7 A. No the Hunter 1 outage was a catastrophic failure of a generating unit during a  
8 peak season, while the Cholla outage was a planned major overhaul outage.  
9 Therefore, Mr. Falkenberg's suggestion that the two events are similar is false and  
10 the Commission should reject his proposed adjustment.

11 **Transmission Modeling Issue - Hayet**

12 Q. On page 4 of Mr. Hayet's testimony, he states that "PacifiCorp has not completed  
13 its evaluation of alternative ways to normalize net power costs as required by the  
14 Commission, and therefore, for this rate case it had to derive net power costs  
15 using a reformatted production dispatch model. As a result, PacifiCorp built an  
16 Excel based spreadsheet model to calculate net power costs". Is this a correct  
17 characterization of the Company's responsibility in this case?

18 A. No. The responsibility of evaluating alternative ways to normalize net power  
19 costs as required by the Commission was not placed in the Company's hands.  
20 The responsibility was placed in the control of the Division of Public Utilities  
21 (DPU). In its May 24, 2000 order in the PacifiCorp 1999 General Rate Case, the  
22 Utah Public Service Commission stated on page 45

1                    “We desire the Division and interested parties to undertake an evaluation  
2                    of alternative approaches to the normalization of net power costs”.

3  
4                    The Division, not the Company, was placed in control of the review. A copy of  
5                    the pertinent page from the order is included as Rebuttal Exhibit UPL\_\_14R  
6                    (MTW-14R).

7                    Q.     When was the review initiated?

8                    A.     After months of delay, the Company telephoned the Division during October 2000  
9                    to inquire the status of the review. Subsequently, the Division scheduled the first  
10                   meeting to discuss the issue on December 8, 2000, some six months after the  
11                   order was issued. By this time, market prices had skyrocketed and the Company  
12                   had experienced tremendous increases in net power costs. With the combination  
13                   of these cost increases and the Commission order from Docket No. 99-035-10  
14                   barring the continued use of the Company’s PD/Mac model, the Company was  
15                   left no alternative but to develop a spreadsheet model so it could file to recover  
16                   the significant price increases it was experiencing.

17                   Q.     With these time constraints, was the Company able to build or acquire a robust net  
18                   power cost model?

19                   A.     No. The process of acquiring or building a new model takes a great deal of time.  
20                   Given the urgent need to seek rate relief to cover the significant costs the  
21                   Company was bearing, the Company did not have the time necessary to bring a  
22                   new model online. The Company therefore developed a spreadsheet model that  
23                   included some simplifying assumptions, one of which was the way the model



1 dispatched and balanced the system. This issue is directly related to Mr. Hayet's  
2 proposed transmission modeling adjustment.

3 Q. Please explain Mr. Hayet's proposed adjustment for transmission modeling.

4 A. The Company's net power cost model as filed balances the Company's system on  
5 an east-side and west-side basis independently from the other. Mr. Hayet  
6 proposes to adjust the model so it will dispatch the system on an integrated basis.  
7 The proposed adjustment will reduce the Company's net power costs by \$32.5  
8 million on a Total Company basis, assuming the Company's proposed market  
9 prices are adopted. If Mr. Falkenberg's proposed short-term firm and non-firm  
10 market price adjustment is adopted, Mr. Hayet's proposed adjustment would  
11 reduce the Company's proposed net power costs by \$1.2 million on a Utah  
12 allocated basis.

13 Q. Do you agree with Mr. Hayet's proposed adjustment?

14 A. Not entirely. I agree that it is appropriate to model the Company's system on an  
15 integrated basis. In doing so, it is important to make sure transfer capabilities and  
16 market sizes are accurate, otherwise the results will still not be correct, despite the  
17 attempt at more robust modeling. Our review of Mr. Hayet's proposed modeling  
18 changes and the work being done for a new net power cost model led us to find  
19 transmission modeling errors in the Company's previous modeling. These errors  
20 were incorporated in Mr. Hayet's modeling. In addition, Mr. Hayet assumed  
21 unlimited non-firm market sizes, which are not reflective of the Company's ability  
22 to buy and sell power. Therefore, his modeling of the Company's system on an

1 integrated basis is wrong because it is not representative of the Company's  
2 system.

3 Q. Why didn't the Company originally model the system on an integrated basis?

4 A. The Company made simplifying modeling assumptions when developing the  
5 model because of time constraints. Two offsetting simplifying assumptions were  
6 made with regard to operating the system on an integrated basis. Basically, the  
7 model was not allowed to operate on an integrated basis, which increased net  
8 power costs and the model was allowed to buy unlimited amounts of energy from  
9 the respective markets, which lowered net power costs. It was the Company's  
10 opinion that these simplifying assumptions were offsetting, so we were  
11 comfortable using the model as filed.

12 Q. Have you calculated the Company's correct transfer capabilities between its  
13 eastern and western systems?

14 A. Yes. The correct transfer capabilities from the eastern system to the western  
15 system and from the western system to the eastern system are shown on Rebuttal  
16 Exhibit UPL\_\_\_.15R (MTW-15R).

17 Q. Have you calculated the correct market sizes for non-firm sales and purchases?

18 A. Yes. A calculation of market sizes that takes into consideration firm transmission  
19 rights to wholesale markets, existing transactions and various restrictions is  
20 provided as Rebuttal Exhibit UPL\_\_\_.16R (MTW-16R).

21 Q. Have you calculated the impact of modeling the Company's system on an  
22 integrated basis with the correct transfer capabilities and market sizes?

1 A. Yes. The corrections reduce Mr. Hayet's proposed adjustment to \$.8 million on a  
2 Total Company basis.

3 Q. What is your recommendation for this issue?

4 A. The Commission should accept the adjustment with the Company proposed  
5 corrections because it is reflective of the Company's system capabilities.

6 Q. On page 22, Mr. Hayet states that the Commission may want to investigate the  
7 reasons availability has declined so dramatically. Is the premise of this statement  
8 correct?

9 A. No. As I demonstrated above in my rebuttal of Mr. Falkenberg's proposed  
10 thermal availability adjustment, the Company's thermal availability has varied  
11 within a reasonable range from prior years. Therefore, the Commission should  
12 ignore Mr. Hayet's suggestion.

13 Q. How do you respond to the other modeling changes proposed by Mr. Hayet,  
14 including dynamic treatment of forced outages, generation levels between  
15 minimum and maximum, ability to model heat rates and time period modeling?

16 A. While the proposed modeling changes may or may not be appropriate for future  
17 use, now is not the right time to address them. The case includes several very  
18 large proposed net power cost adjustments, which deserve the Commission's full  
19 attention. Since the Company is in the process of developing a new robust net  
20 power cost model, Mr. Hayet's recommendations for future modeling changes  
21 should be addressed in the context of the new model.

22 **Net Power Costs – Ms. Wilson**

1 Q. Does Ms. Wilson adopt the net power cost adjustments proposed by Messrs.  
2 Falkenberg and Hayet?

3 A. Ms. Wilson adopted all of Mr. Falkenberg's and Mr. Hayet's proposed  
4 adjustments except Mr. Falkenberg's proposed adjustment for assumed short-term  
5 firm losses. Accordingly, my rebuttal of Mr. Falkenberg's proposed adjustments  
6 also address Ms. Wilson's proposed net power cost adjustments. Further, as I  
7 mentioned above, Mr. Watters is addressing prudence adjustments, including Ms.  
8 Wilson's proposed increase in long-term firm revenue. However, I will address a  
9 misperception in Ms. Wilson's testimony in regards to the net power costs  
10 adopted in the Company's last case.

11 Q. Are you referring to page 2 of Ms. Wilson's testimony, where she states that the  
12 DPU proposed net power costs of \$537 million are \$154 million higher than the  
13 approximate \$383 million from the last rate case?

14 A. Yes. The Commission adopted Total Company net power costs from the Docket  
15 No. 99-035-10 that were approximately \$426 million, not \$383 million.  
16 Therefore, the DPU proposed Total Company net power costs are \$111 million  
17 higher than the last case, not \$154 million.

18 **Thermal Availability, Thermal Maintenance - Herz**

19 Q. Please explain Mr. Herz's proposed thermal availability and thermal maintenance  
20 adjustments.

21 A. Mr. Herz proposes, as Mr. Falkenberg did, that the average thermal availability  
22 and maintenance used in the Company's net power cost model should be adjusted

1 to a six-year average from a four-year average. In addition, Mr. Herz proposes to  
2 move some thermal maintenance from June to either February or April. The  
3 proposed adjustments would reduce the Company's net power costs by \$58  
4 million for thermal availability and \$58.1 million for thermal maintenance on a  
5 Total Company basis. His combined proposed adjustment is much larger than Mr.  
6 Falkenberg's because he did not propose to make an adjustment to the Company's  
7 short-term firm and non-firm annualized market prices.

8 Q. Do you agree with his proposal to move to a six-year average?

9 A. No. His proposed adjustments are essentially the same as Mr. Falkenberg's  
10 proposed thermal availability adjustment, except they are made separately.  
11 Therefore, the Commission should reject Mr. Herz's proposed adjustments for the  
12 same reasons I discussed in my rebuttal of Mr. Falkenberg's thermal availability  
13 adjustment.

14 Q. Are Mr. Herz's proposed adjustments for Gadsby similar to Mr. Falkenberg's  
15 proposed Gadsby adjustment?

16 A. Yes. Mr. Herz also proposes to make adjustments to the inputs for Gadsby so the  
17 units run much higher than their recent actual operation during a period of very  
18 high market prices. Therefore, my rebuttal of Mr. Falkenberg's proposed Gadsby  
19 adjustments are also applicable to Mr. Herz's proposed adjustment.

20 Q. Does Mr. Herz's alternative recommendation to use the six-year historical  
21 availability factors for each unit, combined with the elimination of the high year  
22 and low year operating equivalent availability factors, still result in a double

1 counting as you discussed in rebuttal of Mr. Falkenberg's proposed thermal  
2 availability adjustment?

3 A. Yes. The alternative recommendation also double counts prior thermal operation  
4 levels.

5 Q. Does the Company agree with Mr. Herz's proposal to move some of the thermal  
6 maintenance from June to either February or April?

7 A. No. Mr. Herz's proposal to move some of the Company's thermal maintenance  
8 from June to either April or February is designed to capture the lower prices for  
9 those months. While the Company agrees that it is important to attempt to  
10 schedule outages during lower priced periods, that is not the only factor that  
11 should be considered. Other factors that also need to be considered are the  
12 availability of Company and contract workforces to perform the maintenance,  
13 contractual issues, and weather. In addition, it is necessary to plan major outages  
14 in advance, at which time the expected market conditions may be different from  
15 actuals. An example of this is the spring of 2000, which had higher prices than  
16 the preceding winter. The Company believes its modeling of thermal  
17 maintenance is appropriate and Mr. Herz's proposal to shift some maintenance  
18 should be rejected by the Commission.

19 **Deseret Pricing - Yankel**

20 Q. Please explain Mr. Yankel's proposed adjustment for Deseret pricing.

21 A. Mr. Yankel states that the Deseret contract should be priced at market and  
22 proposes to adjust the monthly price of the sale to the average monthly price of

1 short-term purchases in the Utah portion of the system. The proposed adjustment  
2 would reduce the Company's net power costs by \$37.3 million on a Total  
3 Company basis, utilizing the Company's proposed STF and non-firm market  
4 prices.

5 Q. Do you agree with the proposed adjustment?

6 A. Not entirely. I do agree that the Deseret pricing included in the Company's filing  
7 was too low. However, Mr. Yankel's proposed correction is wrong. Mr.  
8 Yankel's correction assumes that the price of Deseret will be the same as the  
9 average monthly purchase price for short-term firm transactions. That assumption  
10 would be correct only if the short-term firm transactions had the same percentage  
11 of on and off-peak MWh. That is not the case. In addition, a portion of the sales  
12 is for displacement of Deseret generation. Under the Company's market price  
13 proposal there would not be any displacement sales because market prices are well  
14 above the displacement price of \$7.50 per MWh. The proper method of  
15 correcting the Deseret supplemental sale contract would be to eliminate the  
16 displacement sales and to price the supplemental on-peak and off-peak energy at  
17 the relevant on and off-peak prices.

18 Q. Have you calculated the impact of the corrected Deseret pricing?

19 A. Yes. A summary of the revised Deseret pricing is included as Rebuttal Exhibit  
20 UPL\_\_17R (MTW-17R). This would reduce the Company's filed net power  
21 costs by \$25.3 million on a Total Company basis. If the Commission adopts Mr.  
22 Falkenberg's proposed market price adjustments, the \$25.3 million increase in net

1 power costs would need to be reversed to be consistent with Mr. Falkenberg's  
2 proposal.

3 **WAPA I and WAPA II Wholesale Sales - Yankel**

4 Q. Please explain Mr. Yankel's proposed adjustment for the WAPA I and WAPA II  
5 contracts.

6 A. Mr. Yankel proposes to remove the Company's WAPA I and WAPA II contracts  
7 from the Company's case. He attempts to justify this adjustment because, in his  
8 opinion, the Company normalized short-term firm and non-firm market prices on  
9 "going forward prices" and because the contracts had provisions so they could be  
10 terminated and eventually did terminate the WAPA II contract and Block A from  
11 the WAPA I contract. The proposed adjustment would reduce the Company's net  
12 power costs by \$41 million on a Total Company basis. If Mr. Falkenberg's  
13 proposal to use actual market prices is adopted by the Commission, the  
14 adjustment would reduce net power costs by \$10.7 million on a Total Company  
15 basis.

16 Q. Do you agree with Mr. Yankel's proposed adjustment?

17 A. No. Mr. Yankel's proposed adjustment is without merit. First, As I explained  
18 earlier in my rebuttal of Messrs. Chalfant and Falkenberg, the Company did not  
19 normalize short-term firm and non-firm market prices on a proforma (going  
20 forward) basis as Mr. Yankel states. The Company adhered to the test period and  
21 annualized only the impact of price increases that occurred during the actual test  
22 period. Second, the fact that the WAPA I and WAPA II contracts had



1 termination clauses in them is meaningless. The fact remains that both contracts  
2 were in effect during the entire test year and should be included in rates.

3 Q. On page 32 of Mr. Yankel's testimony, he states that these contracts were served  
4 from short-term firm purchases. Is that really the case?

5 A. No. Mr. Yankel's statement is not true. Mr. Yankel can not even make the case  
6 that the WAPA contracts are served primarily by short-term firm sales even if he  
7 assigned all of the lowest cost resources to retail load and the next lowest costs  
8 resources to the highest priced long-term firm wholesale sales contracts.

9 Q. What is your recommendation?

10 A. Mr. Yankel's statements in support of his proposed adjustment are fundamentally  
11 wrong and his proposal is contrary to the test year rule, which the Commission has  
12 used in recent rate cases. Therefore, the Commission should reject his proposed  
13 adjustment.

14 Q. Does this conclude your rebuttal testimony?

15 A. Yes.