

BEFORE THE UTAH PUBLIC SERVICE COMMISSION

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IN THE MATTER OF THE APPLICATION OF	)	
ROCKY MOUNTAIN POWER FOR AUTHORITY	)	
TO INCREASE ITS RETAIL ELECTRIC UTILITY	)	DPU EXHIBIT 11.0 SR-RR
SERVICE RATES IN UTAH AND FOR	)	DOCKET NO. 10-035-124
APPROVAL OF ITS PROPOSED ELECTRIC	)	NET POWER COST - HEDGING
SERVICE SCHEDULES AND ELECTRIC	)	
SERVICE REGULATIONS	)	

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Pre-filed Surrebuttal Testimony

of

Douglas D. Wheelwright

on Behalf of

Utah Division of Public Utilities

July 19, 2011

1 **Q: Please state your name, business address and title.**

2 A: My name is Douglas D. Wheelwright. I am a Utility Analyst in the Division of Public  
3 Utilities ("Division"). My business address is 160 East 300 South, Salt Lake City, Utah  
4 84114.

5 **Q: On whose behalf are you testifying?**

6 A: I am testifying on the Division's behalf.

7  
8 **Q: Are you the same Douglas Wheelwright that filed direct testimony for the Division**  
9 **in this matter?**

10 A: Yes.

11 **Q: What is the purpose of your surrebuttal testimony in this matter?**

12 A: I will respond to several issues raised in rebuttal testimony and will discuss other issues  
13 that have been addressed by other parties in this case. I do not comment on all of the  
14 ideas and statements made by the various witnesses. Silence on a given subject does  
15 not imply that the Division necessarily agrees with the witness on that subject.

16 **Q: Please identify PacifiCorp witness's testimonies that you wish to respond to.**

17 A: I will respond to issues addressed in the rebuttal testimony of Mr. Frank C. Graves,  
18 Stefan A. Bird and John A. Apperson.

19 **Q: How do you respond to the Company's comments from Mr. Frank C. Graves?**

20 A: I agree with several of the points and the concluding recommendations of Mr. Graves.  
21 He suggests that the focus should be on risk-limiting goals that are appropriate for  
22 ratepayers and that these goals should be monitored in a transparent fashion. Specific  
23 recommendations include obtaining input from regulators and customers concerning the  
24 goals of the hedging program and the risk simulation model to be used. A formalized  
25 plan would include the type, timing and triggers for implementing a hedging strategy.

26 The program would require a review of the hedging goals and strategy when there is a  
27 major change in market conditions and provide quarterly or semi-annual reporting of the  
28 success in adherence to the agreed plan. All of these items are closely aligned with the  
29 recommendations made by the Division in Docket No. 09-035-23. In that case, the  
30 Division recommended the following:

31 The Commission should seek input from interested parties and then provide  
32 guidance and standards for the Company hedging strategy. This guidance would  
33 not need to contain rigid goals or strategies but should include the following: (1)  
34 the objective of hedging, (2) the cost of hedging, (3) the mix of hedging tools  
35 allowed, (4) the time horizon for financial derivatives, (5) the appropriate criteria  
36 or triggers for discretionary hedging, and (6) the appropriate reporting  
37 requirements. Guidelines would need to be reviewed every 3 – 5 years or if  
38 there were significant changes in market conditions. Commission approval of  
39 such plans would serve to protect the Company from retrospective “second-  
40 guessing,” so long as the approved plan was followed. Allowance should be  
41 made, however, for approving deviations from such a plan when extraordinary  
42 conditions warrant.<sup>1</sup>

43 **Q: How did the Company respond to the Division’s recommendations made in the**  
44 **previous case?**

45 **A:** In rebuttal testimony, Mr. Gregory N. Duvall stated:

46 While the Company believes these are important issues, it would be more  
47 appropriate to address them in the context of the currently active Energy Cost  
48 Adjustment Mechanism (“ECAM”) or Natural Gas Hedging dockets. The  
49 Division’s proposal raises a number of questions such as what it means for the  
50 Commission to “approve” the Company’s hedging portfolio plan. The degree of  
51 Commission oversight would vary depending on whether there is an ECAM and if  
52 so, what form it takes. The Company believes the Division’s recommendations  
53 cannot get the full consideration they deserve until the Commission has ruled on  
54 the structure of an ECAM for Rocky Mountain Power.<sup>2</sup>

55 It appears that this issue keeps moving from docket to docket without being addressed  
56 or resolved. In the ECAM order<sup>3</sup>, the Commission stated that a general rate case is the  
57 appropriate setting to review this issue.

58 **Q: Are there items in Mr. Graves testimony that you disagree with?**

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<sup>1</sup> Docket No. 09-035-23, Direct Revenue Requirement Testimony of Douglas D. Wheelwright, p. 16.

<sup>2</sup> Docket No. 09-035-23, Rebuttal Testimony of Gregory N. Duvall, p. 46.

<sup>3</sup> Docket No. 09-035-15, Report and Order - Rocky Mountain Power Energy Balancing Account, p. 72.

59 A: Yes. I believe he has misrepresented the concern of the Division and other parties that  
60 RMP has not responded to the changing market conditions. He states that parties  
61 believe that the Company should have “foreseen” the reduction in natural gas prices that  
62 ensued from the shale gas production.<sup>4</sup> The Division has not suggested that these  
63 events could have been predicted with absolute precision. What the Division and parties  
64 have suggested is that given the substantial amount of money that was committing to  
65 hedging, the Company should have been more aware of the potential impact that  
66 developments such as shale gas would have on future prices.

67 The Company has acknowledged that market conditions for natural gas have  
68 experienced a dramatic change in the past 3 years. The changing natural gas market  
69 has caused regulators across the country to review the policies for other utilities as was  
70 outlined by Division witness Mark Crisp.<sup>5</sup> Market conditions have prompted published  
71 articles discussing the effectiveness of hedging programs.<sup>6</sup> While the changing market  
72 conditions may have been unforeseen, they should have prompted the Company to  
73 review the hedging program as recommended in Mr. Graves’ rebuttal testimony.<sup>7</sup> The  
74 Division is certainly not suggesting that the Company should have speculated on future  
75 gas prices, only that the Company’s current hedging program has not been flexible  
76 enough and does not allow it to react even as market events were unfolding around  
77 them.

78 **Q: How do you respond to the comparison to Portland General’s hedging practice**  
79 **and the example of the long-term Hermiston contract?**

80 A: The testimony references the 2009 IRP for Portland General. The IRP document states:  
81 PGE layers in contracts of differing durations of up to five years in advance for a  
82 portion of the expected future fueling requirements. As we get closer to our  
83 fueling need, purchases are increased to ensure that we have acquired contracts  
84 to meet our expected requirements roughly one year in advance.<sup>8</sup>

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<sup>4</sup> Rebuttal Testimony of Frank C. Graves, p. 3, line 45.

<sup>5</sup> Pre-filed Direct Testimony of Mark W. Crisp, May 26, 2011.

<sup>6</sup> NRRI, Natural Gas Hedging: Should Utilities and Regulators Change Their Approach, Ken Costello, May 2011.

SNL Financial, The merits of hedging in a low-price environment, Jodi Shafto, June 22, 2011.

SNL Financial, Dodd-Frank’s capital rules could ‘punish’ end users, Peter Marrin, July 8, 2011.

<sup>7</sup> Rebuttal Testimony of Frank C. Graves, p. 27, line 496.

<sup>8</sup> PGE 2009 Integrated Resource Plan, Chapter 7, p. 144.

85 While Portland General does allow purchases up to five years in advance, it is unclear  
86 what percentage of the future requirements are being purchased in the forward years.  
87 The guidelines for PacifiCorp are as follows:

88 [REDACTED]  
89 [REDACTED]  
90 [REDACTED]  
91 [REDACTED]  
92 [REDACTED]  
93 [REDACTED]  
94 [REDACTED]

95 It is interesting that the Company has used the Hermiston contract as an example of  
96 long-term hedging. While this has been a favorable contract for rate payers, it has been  
97 identified as a maturing contract and one of the reasons for the projected increase in  
98 natural gas costs. The maturity of this favorable contract should be another triggering  
99 event that should prompt a review of the current hedging strategy and a possible report  
100 to regulators.

101 **Q: Do you agree with Mr. Graves that the evaluation of the hedging program should**  
102 **be reviewed not as winning and losing but should be evaluated based on whether**  
103 **the strategy has stayed within the expected range?**

104 **A:** In general, yes. However, year-over-year losses should raise some concerns not only  
105 on the part of regulators but the Company, acting in the public interest, should be  
106 concerned. With that said, there are many ways to evaluate a hedging program. One of  
107 the primary concerns of the Division is that the current program does not have standards  
108 or guidelines in place that have been reviewed or approved by the Commission. There  
109 is no established or predetermined way to evaluate the success or shortcoming of the  
110 current program other than comparisons to other utilities. Parties have come up with  
111 several different methods to evaluate the performance of the total hedging program and  
112 a review of the swap transactions. In DPU data request 20.9, the Division asked for  
113 specific information concerning how the stop loss limit was determined and if it had been  
114 changed. The Company indicated that this information is commercially sensitive and

<sup>9</sup> PacifiCorp, Exhibit 10 – Commodity Price Exposure Hedge Program, p. 2, Item 7.

115 highly confidential and could only be viewed on site but indicated that it had not been  
116 changed since 2006. It is difficult to determine the success of a program if the  
117 guidelines are not known and regularly reviewed and reported.

118 **Q: How do you respond to the testimony of John A. Apperson and his allegation that**  
119 **excluding the physical contracts provides an incomplete analysis of the hedging**  
120 **program?**

121 A: The focus of my analysis was on the natural gas and electric swaps since the EBA  
122 docket ordered that this portion of the hedging program be excluded from the base and  
123 actual NPC.<sup>10</sup> The EBA order indicates that the inclusion of any swap costs must be  
124 decided in a general rate case.

125 **Q: Mr. Apperson is critical of your analysis in table 2 and feels that the total hedging**  
126 **cost should be compared to the total net power cost of \$1.5 billion. Do you agree**  
127 **with this different calculation method?**

128 A: That is another way to look at these costs but I believe calculating the hedging cost  
129 compared to the total NPC dilutes the significance of the Company's hedging activities.  
130 However, using Mr. Apperson's calculations, the total hedging cost adds 6%, or \$90.7  
131 million, to the total NPC. This represents a significant addition to the total NPC and  
132 should be carefully reviewed and examined by the Commission to determine if they are  
133 appropriate to be included in rates.

134 The natural gas swaps portion of the total hedging strategy is directly related to the  
135 natural gas fuel cost and should be reviewed and included in the total gas fuel expense.  
136 The total of the natural gas fuel and natural gas swap costs should be added together to  
137 determine the total cost per MMBtu for gas fired electric generation. The total cost per  
138 MMBtu including swaps has not been addressed by the Company. Based on the  
139 revisions included in the UT GRC 2011 Rebuttal Gold NPC Study grid run, the total gas  
140 fuel burn expense has been reduced along with a reduction in the projected MMBtu for  
141 the gas facilities. Table 1 below is a comparison of the cost per MMBtu in the original  
142 forecast compared to the information provided in the rebuttal NPC study.

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<sup>10</sup> Docket No. 09-035-15, Report and Order - Rocky Mountain Power Energy Balancing Account, p. 75.

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Table 1

	UT GRC June 2012 (GOLD) 2010-12-23	Cost per MMBtu	UT GRC 2011 Rebuttal Gold NPC Study 2011- 06-22	Cost per MMBtu
Gas Fuel Burn	\$328,543,939	\$ 4.85	\$301,115,635	\$ 4.94
Gas Physical	\$69,552	\$ 0.00	\$(134,839)	\$(0.00)
Gas Swaps	\$160,723,241	\$ 2.38	\$155,955,188	\$ 2.56
Gas Fuel Burn Expense	\$489,336,732	\$ 7.23	\$456,935,984	\$ 7.49
Pipeline Reservation Fees	\$26,451,016	\$ 0.39	\$26,483,817	\$ 0.43
<b>TOTAL GAS FUEL BURN EXPENSE</b>	<b>\$515,787,748</b>	<b>\$ 7.62</b>	<b>\$483,419,801</b>	<b>\$ 7.93</b>
Natural Gas Volume (MMBtu)	67,672,662		60,997,565	
Total Net Power Cost	\$1,521,262,900		\$1,508,445,770	
System Load (MWh)	61,614,191		61,611,123	

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145 While the natural gas fuel expense and volume has gone down, the cost associated with  
146 gas swaps have come down only slightly. This reduction in the projected volume results  
147 in an increase in total cost per MMBtu for the natural gas generation from \$7.62 to  
148 \$7.93. Referring back to the EIA long-range forecast, the spot price for natural gas will  
149 not be in the \$7 range until 2035.

150 The revised forecast provided in rebuttal testimony calculates as a 9.9% reduction in the  
151 projected natural gas volume. This downward revision in the projected need for natural  
152 gas supports the recommendation from the Division and other parties to hedge less than  
153 100% of the forecast requirement. A modification to the current strategy would allow for  
154 quantity fluctuations due to changing demand or economic conditions.

155 **Q: Do other utilities review the fuel cost including the hedging cost?**

156 A: Regulators in South Carolina recently completed their annual audit of the fuel costs for  
157 Progress Energy.<sup>11</sup> This report identified the Company's total fuel cost including hedging  
158 for each generating facility. The report examined the total cost of hedging on a company  
159 basis and looked at the impact and cost of hedging at the individual customer level. By  
160 comparison, Progress Energy generates approximately 8% of its electricity from natural  
161 gas generation and hedges 40% of the fuel purchased compared to PacifiCorp's 12%  
162 gas generation and up to ██████ hedging.

163 **Q: Mr. Apperson is critical of your analysis and the use of the EIA Annual Energy**  
164 **outlook. How do you respond?**

165 A: He is correct in stating that the EIA forecast was changed in 2009 based on the  
166 changing market conditions. His analysis however seems to prove the concern of many  
167 interveners in this case that the Company's current program is not able to adapt to  
168 changing market conditions. In rebuttal testimony he states;

169           The Company executed the majority of its natural gas hedges for the test period  
170           prior to 2009; thus, its hedges were prudent given expectations at the time of  
171           execution.<sup>12</sup>

172 Parties have been concerned for some time that the current program is not flexible  
173 enough to adapt to changing market conditions and that contracts are purchased too far  
174 in advance. Even after EIA had revised the forecast down in 2009 and continued to  
175 lower the subsequent forecasts in 2010 and 2011, there has been no review or change  
176 to the current program. The Company has not been able to take advantage of the  
177 reduction in fuel cost that would benefit both the Company and rate payers.

178 **Q: How do you respond to the criticism of your analysis of the correlation between**  
179 **the gas and electric hedging?**

180 A: Mr. Bird indicates in his testimony that the Company manages its net energy position to  
181 take advantage of the natural offsets between its long power and short natural gas  
182 positions. No one has disputed that the Company should take advantage of the offset,

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<sup>11</sup> Docket No. 2011-1-E, The Office of Regulatory Staff, Direct Testimony and Exhibits of Michael L. Seaman-Huynh, June 2, 2011.

<sup>12</sup> Rebuttal Testimony of John A. Apperson, p. 16.



183 however the difference between the Company's long power and short natural gas  
184 positions is changing. Mr. Apperson's testimony has validated some of the Division's  
185 concerns relating to the natural offset and volume differences between the natural gas  
186 and the electric contracts. He states:

187           The volume of natural gas hedging in relation to electricity hedging will naturally  
188           be greater. Further one should expect in such circumstances that the net power  
189           cost impacts of the Company's natural gas hedges will exceed the net power  
190           cost impacts of the Company's electricity hedges.<sup>13</sup>

191 To the Division, this suggests a need to review gas and electric contracts as separate  
192 programs to maximize gains and minimize potential losses for both commodities prior to  
193 looking at the natural offset between the two positions.

194 **Q: In Mr. Stefan A. Bird's testimony he indicated that there had been a reduction in**  
195 **the four years forward hedging percentage as a result of the reduction in the price**  
196 **of natural gas. Were you aware of this change and has this been communicated**  
197 **to the Division or the Commission?**

198 **A:** No. This is the first time this issue has been addressed by the Company and the  
199 Division has not seen any reporting from the Company to indicate this change.  
200 However, the testimony appears to be in conflict with the response to data requests  
201 previously submitted.

202           **DPU Data Request 20.19** - The current forward price curve indicates fairly stable  
203           natural gas prices in future years. With the abundance of shale natural gas and  
204           the projected prices, will that have an impact on the current hedging strategy?

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<sup>13</sup> Rebuttal Testimony of John A. Apperson, p. 24.

205           **Response to DPU Data Request 20.19** - The Company does not anticipate any  
206 change in hedge strategy based on current price projections. While the current  
207 forward price curve indicates projections of stable price in future years, history  
208 has proven that this can change radically. The Company anticipates maintaining  
209 a hedging strategy that manages the impact of changing natural gas prices on  
210 net power costs within acceptable tolerances as defined by current risk  
211 management policy and practices in the current front office procedures and  
212 practices.

213           **DPU Data Request 20.20** - With the historical and projected reduction in the  
214 amount of electric sales, please provide an explanation of the potential impact to  
215 the current hedging strategy.

216           **Response to DPU Data Request 20.20** The Company does not anticipate any  
217 changes to its hedge strategy as a result of a shorter open electricity position,  
218 (i.e., the Company anticipates no change to the hedge targets measured as a  
219 percentage of the weighted net power costs nor to the to-expiry value-at-risk  
220 methodology).

221           Mr Bird has referred to the new TEVaR risk metric that was introduced in a technical  
222 conference May 25, 2010. This was presented as a mechanism to improve the  
223 transparency of the hedging program and risk exposure. It is unclear to the Division how  
224 this program has improved the transparency of the hedging program since no changes  
225 have taken place and no results have been reported to the Division.

226   **Q: Can you explain why you believe that it is best to look at the gas swaps based on**  
227 **the price per MMBtu instead of a straight dollar value reduction?**

228   **A:** Interveners in this case have used various calculation methods to come up with a dollar  
229 amount for disallowance on swap transactions. While different calculations have been  
230 used, the net results are similar. These calculations look at the total cost and then  
231 deduct a dollar amount or percentage from the total. This will work on a one time basis  
232 but does not establish a framework that can be used in the future. Instead of using a  
233 percentage of the total cost for disallowance, the Division attempted to estimate a range  
234 of prices calculated per MMBtu that could be allowed in rates. This calculation method  
235 could be used in future rate cases and could be used in connection with the future EBA  
236 calculation. The Company's projected cost per MMBtu could be compared to the  
237 forecast price to determine the hedging premium. Guidelines and tolerance limits could  
238 be established to limit the allowed premium for swap transactions.

239 **Q: Do you have any additional information on NPC that you would like to include with**  
240 **this testimony?**

241 A: Yes. DPU Exhibit 11.1 SR – RR is a comparison of the actual NPC to the forecast  
242 values for July 2010 through April 2011. The forecast amount is from the UT GRC June  
243 2011 (GOLD) 2010-12-27 forecast information. Actual NPC information is provided by  
244 the Company on a monthly basis with the most recent actual information through April  
245 2011.

246 When comparing the actual cost to the forecast, it is informative to review the difference  
247 in the individual line items included in the total NPC. For the 10-month July to April 2011  
248 period, total NPC is \$20.2 million higher than forecast while the coal fuel expense is  
249 \$66.0 million lower and the gas burn expense including swaps is \$62.2 million lower than  
250 forecast. Fuel costs have been identified as the primary driver for the projected increase  
251 in NPC however both categories are lower than the projected amounts for the first 10  
252 months. It appears the purchases and sales are having a greater impact on NPC than  
253 fuel costs for the period under review. The individual components of NPC should be  
254 reviewed since they could have an impact on the future EBA calculations. While there  
255 has been a 15.2% decrease in the actual gas cost and an 11.4% decrease in coal cost  
256 compared to forecast, the total NPC has increased. This downward trend in the  
257 projected quantity of natural gas supports the recommendation from the Division and  
258 other parties to hedge less than 100% of the forecast requirement. This would allow for  
259 quantity fluctuations due to changing demand or changes in the economic conditions.

260 **Q: Has the Company addressed the concern that the current hedging program does**  
261 **not include cost minimization as part of the overall strategy?**

262 A: No. This issue has been brought up by several parties in this case and it has been  
263 brought up in other dockets as well. Mr. Bird indicates in his testimony:

264 The goals of the risk management program are to: (1) ensure that reliable power  
265 is available to serve customers; (2) reduce net power cost volatility; and (3)  
266 protect customers from significant risks.<sup>14</sup>

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<sup>14</sup> Rebuttal Testimony of Stefan A. Bird, p. 15.

267 The Commission ruled in the Questar Gas case that cost consideration should be  
268 included as part of the purchase strategy along with reliability and price stability.<sup>15</sup> This  
269 does not appear to be a consideration for PacifiCorp.

270 **Q: How do you respond to the claim that the Company has followed the guidelines**  
271 **outlined in the risk management policy and should not be criticized or penalized**  
272 **for following its own plan?**

273 A: The Company does have a hedging program in place and has set up a number of  
274 guidelines and procedures which have been examined by the Division's consultants.  
275 While the guidelines are in place, they have not been reviewed by the Commission to  
276 determine if they are in the public interest. The Company has documented these  
277 guidelines internally but does not report the actual results to the Commission or the  
278 Division. Since the Company did not violate the guidelines during the recent period of  
279 extreme price volatility in the natural gas prices, it can be argued that the loss  
280 parameters are too broad to be useful or meaningful. For comparison, if the speed limit  
281 is set at 100 mph, the chance of getting a speeding ticket is pretty low.

282 **Q: How do you respond to Mr. Bird's claim that the DPU's analysis is incomplete and**  
283 **misleading and takes a short term perspective?**

284 A: Mr. Bird is critical of the DPU analysis and indicates it looks only at recent developments  
285 and does not take a long-term perspective. In economics, the short term (or run) is  
286 defined as a period short enough such that at least one input is fixed. The long term is  
287 defined as a period of time long enough such that all inputs are variable. In this respect,  
288 the Division's view and consistent position has been more of a long-term view. The  
289 Division has consistently recommended that the Commission direct the Company to  
290 produce a hedging policy that would be flexible and would allow the Company to react to  
291 changing market conditions.

292 The Division is not looking at just the current period and has expressed concern about  
293 the hedging program in this and in other dockets. Shale gas development for example,  
294 has been going on for several years. The EIA natural gas price forecast included in

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<sup>15</sup> Questar Gas Order in Docket Nos. 00-057-08 and 00-057-10 p. 7.

295 previous testimony shows the 2011 forecast lower than the 2010 and 2009 forecasts.  
296 The Company has known for several years that long term contracts were expiring and  
297 has not addressed these issues. This is not a new or short-term perspective.

298 **Q: Do you still believe an adjustment for swaps and a disallowance is appropriate?**

299 A: Yes. Based on the information presented above, the Company has not responded to the  
300 changing conditions both inside and outside of their control. The Commission has stated  
301 that a general rate case is the appropriate proceeding to determine if the Company is  
302 providing the least-cost, least-risk adjusted service to Utah customers.<sup>16</sup> The Company  
303 should not be allowed to recover all of these costs when they have not taken the  
304 appropriate steps to review or modify the current hedging program. With the  
305 implementation of the EBA scheduled to begin at the conclusion of this rate case,  
306 determining the appropriate costs to be include in base rates becomes even more  
307 important

308 **Q: Do you have any changes to the conclusions and recommendations identified in**  
309 **your original testimony?**

310 A: No. The Company has presented a great deal of additional information on hedging in  
311 the rebuttal testimony. However, the Company has not provided evidence to indicate  
312 that the current amount or the duration of the hedging program provides the appropriate  
313 balance of risk between the Company and ratepayers. The current hedging program  
314 has not been flexible enough and has not been able to adapt to the changes that have  
315 occurred in the natural gas market. Even though both internal and external conditions  
316 have changed, the Company has not completed a review of the program and has not  
317 considered the long-term cost or risks to rate payers.

318 In the EBA order the Commission stated that it will not provide standards or targets, or  
319 set limits on the components of power cost.<sup>17</sup> The absence of any guidance or direction  
320 from the Commission creates uncertainty for the Company and the possibility of  
321 unintended consequences. In Mr. Bird's rebuttal testimony he states;

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<sup>16</sup> Docket No. 09-035-15 ECAM Order, p. 73.

<sup>17</sup> Docket No. 09-035-15 ECAM Order, p. 72.

322 The Company welcomes Commission feedback particularly in regard to going  
323 forward risk tolerances, any other aspect of the Company's risk management  
324 policy and hedging program, and any type of reporting that the Commission may  
325 desire.<sup>18</sup>  
326

327 This would indicate that the Company would like direction and guidance from the  
328 Commission in order to establish future guidelines.

329 The Division recommends and requests that the Commission issue an order that: (1)  
330 Directs the Company to complete an analysis and review of specific investment vehicles  
331 currently available such as options, caps, collars and their associated cost. (2) Orders  
332 the Company to prepare a hedging decision protocol and a method to determine when  
333 the use of other products would be appropriate to incorporate into the current program.  
334 (3) Instructs the Company to determine the hedging goals and strategy for electric and  
335 natural gas and structure them with separate guidelines. The goals should consider  
336 both the interest of the Company and rate payers. (4) Orders the Company to complete  
337 a review of the quantity and duration of swap contracts in future years. (5) Establishes  
338 the type and frequency of the reporting to the Commission and the Division.

339 As stated in previous testimony, the Division recommends that the Company file a  
340 comprehensive hedging plan with the Commission every two years. The plan should  
341 include the Company's current hedging goals and strategies for both natural gas and  
342 electricity along with estimates for market purchases.

343 **Q: Does this conclude your surrebuttal testimony?**

344 **A:** Yes.

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<sup>18</sup> Rebuttal Testimony of Stefan A. Bird, p. 37.