

**Docket No. 10-035-124**

**Utah Office of Consumer Services Witness:**

**Daniel J. Lawton**

**Exhibits OCS 1.1 through 1.9**

**May 11, 2011**

**BEFORE THE PUBLIC SERVICE COMMISSION OF UTAH**

**In the Matter of the Application of  
ROCKY MOUNTAIN POWER, for  
Authority To Increase its Retail Electric  
Utility Service Rates in Utah and For  
Approval of its Proposed Electric Service  
Schedules and Electric Service  
Regulations.**

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**Docket No. 10-035-124**  
**Direct Rate of Return Testimony  
of Daniel J. Lawton  
For the Utah Office of Consumer  
Services**

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**May 11, 2011**

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**DIRECT TESTIMONY OF  
DANIEL J. LAWTON**

1     **SECTION I: INTRODUCTION/BACKGROUND/SUMMARY**

2     **Q.     PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.**

3     A.     My name is Daniel J. Lawton. My business address is 701 Brazos, Suite 500, Austin,  
4            Texas 78701.

5     **Q.     PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND AND WORK  
6            EXPERIENCE.**

7     A.     I have been working in the utility consulting business as an economist since 1983.  
8            Consulting engagements have included electric utility load and revenue forecasting, cost  
9            of capital analyses, revenue requirements/cost of service reviews, and rate design  
10           analyses in litigated rate proceedings before federal, state and local regulatory  
11           authorities, and in court proceedings. I have worked with municipal utilities developing  
12           electric rate cost of service studies for reviewing and setting rates. In addition, I have a  
13           law practice based in Austin, Texas. My main areas of legal practice include  
14           administrative law representing municipalities in electric and gas rate proceedings and  
15           other litigation and contract matters. I have included a brief description of my relevant  
16           educational background and professional work experience in my Exhibit OCS 1.1.

17    **Q.     HAVE YOU PREVIOUSLY FILED TESTIMONY IN RATE PROCEEDINGS?**

18    A.     Yes. A list of cases where I have previously filed testimony is included in my Exhibit  
19            OCS 1.1.

20    **Q.     ON WHOSE BEHALF ARE YOU FILING TESTIMONY IN THIS  
21            PROCEEDING?**

22    A.     I have been retained to review Rocky Mountain Power Company's ("Company" or  
23            "RMP") cost of capital request and financial integrity metrics and issues on behalf of the  
24            Utah Office of Consumer Services ("OCS").

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

26 **A.** The purpose of my testimony in this proceeding is to address the Company's requested  
27 overall cost of capital. I will address the Company's requested rate of return, capital  
28 structure, and cost rates for equity capital, preferred stock and long-term debt, which is  
29 presented in the direct testimony of Company cost of capital witnesses, Dr. Samuel  
30 Hadaway and the direct testimony of Mr. Bruce Williams. In addition, I am addressing  
31 financial integrity and cash flow issues related to return of and on capital. Lastly, I will  
32 be addressing the impacts on RMP's risks of surcharge mechanisms for plant  
33 investment, fuel cost recovery, future test year, rate design and tax law changes related  
34 to bonus depreciation.

35 **Q. WHAT MATERIALS DID YOU REVIEW AND RELY ON FOR THIS**  
36 **TESTIMONY?**

37 **A.** I have reviewed the Company's current direct and previous testimony, Company  
38 responses to interrogatories, Value Line Investment Survey ("Value Line"), financial  
39 reports of the Company, along with other utility companies of comparable risk and  
40 various other financial information available in the public domain. When relying on  
41 other sources, I have referenced such sources in my testimony and/or attached schedules  
42 and included copies or summaries in my attached schedules or workpapers.

43 **Q. PLEASE SUMMARIZE YOUR FINDINGS AND CONCLUSIONS IN THIS**  
44 **CASE.**

45 **A.** My analysis of the Company's required cost of capital results in a recommendation of a  
46 9.5% return on equity for shareholders and an overall return to be earned on rate base  
47 investment of 7.73%. In my opinion, these return levels are consistent with current  
48 capital costs and consistent with reasonable rates for consumers. My analyses of the  
49 Company's 8.25% overall cost of capital and 10.50% return on equity indicate that the  
50 Company request is overstated and is not consistent with just and reasonable rates for  
51 consumers given current market costs of capital.

52 Based on my analyses (which are fully explained in the following pages), I make the  
53 following conclusions and recommendations:

- 54 (i) The Company's required return on equity is 9.5%;
- 55 (ii) The Company's overall cost of capital to be earned on rate base investment  
56 should be set at 7.73% for setting just and reasonable rates for Utah customers in this  
57 proceeding;
- 58 (iii) The Company's proposed 10.50% return for equity shareholders is an  
59 overstatement of the required return on equity to hold and attract equity capital;
- 60 (iv) The Company's proposed 8.25% overall return on investment is overstated and  
61 should not be adopted as representative of the Company's cost of capital requirements;  
62 and
- 63 (v) A return of 7.73% is more than adequate for the Company to maintain its  
64 financial integrity.

65 **SECTION II: OVER VIEW OF COMPANY'S REQUEST**

66 **Q. HOW WOULD YOU DESCRIBE THE COMPANY'S RATE INCREASE**  
67 **REQUEST IN THIS CASE?**

68 A. I would describe the Company's \$232.4 million rate increase request as aggressive in  
69 terms of imposing costs and potentially hardship on customers. The Company's \$232.4  
70 million rate increase request is a record setting rate increase request in terms of dollars  
71 and comes on the heels of recent individual major plant addition proceedings,<sup>1</sup> that  
72 increased revenue requirements about \$64 million annually.

73 While the Company asserts that the "...Application includes only those elements of the  
74 revenue increase request necessary to maintain and provide safe and reliable service to  
75 its customers..." (emphasis added) the underlying facts show this is not a correct  
76 statement. Instead, the facts show that at a time when the Company is asking that  
77 customers absorb the biggest rate increase in the history of Utah regulation, the  
78 Company is proposing to pay itself dividends in the amount of \$850 million over the  
79 period these rates are to be implemented. These \$850 million in dividends will

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<sup>1</sup> See Company Docket No. 10-035-124 Application at 5 paragraph 11

80 eventually flow upstream to MidAmerican Energy Holdings Company (“MEHC”) and  
81 Berkshire Hathaway ownership.

82 The Company takes the position that recent tax legislation enacting 100 percent bonus  
83 depreciation will significantly increase the Company’s cash flow over the next two years  
84 – and absent payment of dividends, common equity ratios could increase beyond levels  
85 necessary to support current credit ratings.<sup>2</sup>

86 **Q. IS THE COMPANY’S RATE INCREASE REQUEST AGGRESSIVE IN OTHER**  
87 **RESPECTS?**

88 A. Yes. The Company’s cost of equity capital is overstated and fails to consider the risk  
89 reducing impacts of the Company’s (i) major plant additions cases (which reduces  
90 regulatory lag), (ii) use of a forward test period (which limits regulatory lag), (iii) the  
91 risk reduction impact of fuel cost reconciliation and true-up, (iv) and RMP’s lower  
92 financial risks given a 51.9% equity ratio relative to the comparable risk company  
93 average of 49%, (v) increased cash flows resulting from bonus depreciation and (iv) a  
94 proposed rate design that removes risk of recovery. All of these factors mitigate risk and  
95 were ignored in the Company’s analyses and rate request.

96 Had the Company considered the risk reduction impacts of the above factors and cash  
97 flow expectations, an equity return at the lower end of the ROE range would lower the  
98 requested revenue request many millions of dollars.

99 The Company cannot support its equity return request given the risk reduction measures  
100 authorized by this Commission and the Company’s expected cash flow and dividend  
101 payments. Instead, the Company’s equity return should be at the lower end of the range  
102 to reflect lower risk.

103

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<sup>2</sup> Direct Testimony Bruce N. Williams at 4:76-86.

104 **SECTION III: REGULATORY ISSUES AND COST OF CAPITAL**

105 **Q. PLEASE EXPLAIN THE COST OF CAPITAL CONCEPT AS IT RELATES TO**  
106 **THE REGULATORY PROCESS.**

107 A. The overall rate of return to be earned on rate base investment is an essential element in  
108 the regulatory and rate setting process. The overall return to be earned on rate base  
109 investment is typically a major part of overall revenue requirements. For example, in  
110 this case the Company's requested overall return is 8.25%.<sup>3</sup> As is discussed later, a  
111 small change in return requirements can have a large impact on revenue requirements.

112 **Q. WHAT REGULATORY AND COST OF CAPITAL ISSUES ARE IMPORTANT**  
113 **TO UNDERSTAND AS BACKGROUND TO YOUR ANALYSIS?**

114 A. It is useful to understand the following concepts:

- 115
- Cost of capital as it relates to the regulatory process;
  - 116 • The components of cost of capital and their determination;
  - 117 • The calculation of the cost of debt and preferred stock; and
  - 118 • The cost of equity concept and methodology

119 I will explain each of these concepts in the following section. Then, I will explain the  
120 Company's request broken out into the various components.

121 **Q. PLEASE EXPLAIN THE COST OF CAPITAL CONCEPT AS IT RELATES TO**  
122 **THE REGULATORY PROCESS.**

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124 the regulatory and rate setting process. The overall return to be earned on rate base  
125 investment is typically a major part of overall revenue requirements. For example, in  
126 this case the Company's requested overall return is 8.25%.<sup>4</sup> As is discussed later, a  
127 small change in return requirements can have a large impact on revenue requirements.

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<sup>3</sup> Company Direct Testimony Bruce Williams at 2:34-35

<sup>4</sup> Company Direct Testimony Bruce Williams at 2:34-35



128 **Q. WHAT ARE THE COMPONENTS OF COST OF CAPITAL?**

129 A. The overall rate of return in the regulatory process is best explained in two parts. First,  
130 return to senior securities, such as debt and preferred stock, both of which are included  
131 in the capital structure, are contractually set at issuance. The reasonableness of the cost  
132 of this contractual obligation between the utility and its investors is examined by  
133 regulatory agencies as part of the utility's overall cost of service.

134 The second part of a Company's overall return requirement is the appropriate cost rate to  
135 assign the equity portion of capital costs. The return to equity should be established at a  
136 level that will permit the firm an opportunity to earn a fair rate of return. By fair rate of  
137 return, I mean a return to equity holders, which is sufficient to hold and attract capital,  
138 sufficient to maintain financial integrity, and a return to equity comparable to other  
139 investments of similar risks.

140 **Q. PLEASE EXPLAIN HOW THE VARIOUS COMPONENTS OF COST OF**  
141 **CAPITAL ARE DETERMINED.**

142 Two U.S. Supreme Court decisions are often cited as the legal standards for rate of  
143 return determination. The first is *Bluefield Water Works and Improvement Company v.*  
144 *Public Service Commission of West Virginia*, 262 U.S. 679 (1923). The *Bluefield* case  
145 established the following general standards for a rate of return: The return should be  
146 sufficient for maintaining financial integrity and capital attraction and a public utility is  
147 entitled to a return equal to that of investments of comparable risks.

148 The second U.S. Supreme Court decision is the *Federal Power Commission v. Hope*  
149 *Natural Gas Company*, 320 U.S. 591 (1942). In the *Hope* decision, the Court affirmed  
150 its earlier *Bluefield* standards and found that methods for determining return are not the  
151 test of reasonableness rather the result and impact of the result are controlling.

152 The cost of capital is defined as the annual percentage that a utility must receive to  
153 maintain its financial integrity, to pay a return to security owners and to insure the  
154 continued attraction of capital at a reasonable cost and in an amount adequate to meet  
155 future needs. Mathematically, the cost of capital is the composite of the cost of several

156 classes of capital used by the utility – debt, preferred stock, and common stock,  
157 weighted on the basis of an appropriate capital structure.

158 The ratemaking process requires the regulator to determine the utility’s cost of capital  
159 for debt, preferred stock and equity costs. These calculations of cost rates, when  
160 combined with the proportions of each type of capital in the capital structure, result in a  
161 percentage figure that is then multiplied by the value of assets (investment) used and  
162 useful in the production of the utility service to ultimately arrive at a rate charged to  
163 customers. Rates should not be excessive (exceed actual costs) or burdensome to the  
164 customer and at the same time should be just and reasonable to the utility.

165 In summary, the objective of overall rate of return determination in the regulatory  
166 process is to compute the return such that the embedded (contractually required) cost of  
167 senior securities is recovered. In addition, a regulated utility should be provided an  
168 opportunity to generate additional earnings that are sufficient to compensate equity  
169 investors at a level that will hold existing investors, attract new investors, and maintain  
170 the financial integrity of the utility.

171

172 **Q. PLEASE EXPLAIN THE CALCULATION OF THE COST OF DEBT AND**  
173 **PREFERRED STOCK.**

174 A. As stated earlier, the cost of debt and preferred stock is contractually set at a rate or  
175 sometimes a variable rate. These contractual rates are costs that are included in the  
176 return requirements.

177 **Q. PLEASE EXPLAIN THE COST OF EQUITY CONCEPT.**

178 A. The cost of equity, or return on equity capital, is the return expected by investors over  
179 some prospective time period. The cost of equity one seeks to estimate in this  
180 proceeding is the return investors expect prospectively when the rates from this case will  
181 be in effect.

182 The cost of common equity is not set by contract, and there are no hard and fast  
183 mathematical formulae with which to measure investor expectations with regard to

184 equity requirements and perceptions of risk. As a result, any valid cost of equity  
185 recommendation must reflect investors' expectations of the risks facing a utility.

186 **Q. WHAT PRINCIPAL METHODOLOGY DO YOU EMPLOY IN YOUR COST OF**  
187 **EQUITY CAPITAL ANALYSES?**

188 A. I employ the Discounted Cash Flow (“DCF”) methodology for estimating the cost of  
189 equity, keeping in mind the general premise that any utility's cost of equity capital is the  
190 risk free return plus the premium required by investors for accepting the risk of investing  
191 in an equity instrument. It is my opinion that the best analytical technique for measuring  
192 a utility's cost of common equity is the DCF methodology. Other return on equity  
193 modeling techniques such as the Capital Asset Pricing Model (“CAPM”) or risk  
194 premium are often used to check the reasonableness of the DCF results. I have employed  
195 all these modeling methods to arrive at my recommendations in this case.

196 **Q. PLEASE DESCRIBE THE RISKS IMPACTING THE COST OF EQUITY**  
197 **REFERENCED ABOVE.**

198 A. As I stated earlier in this testimony, equity investors require compensation above and  
199 beyond the risk free return because of the increased risk factors investors face in the  
200 equity markets. Thus, investors require the risk free return plus some risk premium  
201 above the risk free return. The basic risks faced by investors that make up the equity  
202 risk premium include business risks, financial risks, regulatory risks, and liquidity risks.

203 **Q. WHAT IS THE BREAKDOWN OF RETURN ON CAPITAL AND PROFIT**  
204 **BEING REQUESTED IN THIS CASE?**

205 A. The overall return on rate base investment being requested in this case is shown in the  
206 following table.

207

Table 1 <sup>5</sup>				
Capital Structure and Return				
Description	Ratio	Cost Rate	Weighted Cost	Requested Return <sup>6</sup>
Debt	47.80%	5.81%	2.77718%	\$152,600,897
Preferred	0.30%	5.43%	0.01629%	\$895,105
Common	51.90%	10.50%	5.44950%	\$299,439,931
Total	<u>100.00%</u>	----	<u>8.24297%</u>	\$452,935,933

208 As can be seen from the above table, the Company is requesting that rates be set to allow  
 209 the Company to earn an 8.24297% overall return on a claimed test year investment level  
 210 of \$5,494,814,744, which translates into \$452,935,933 of total return dollars. The total  
 211 return dollars can be broken down to \$152,600,897 of interest return to cover claimed  
 212 debt costs, \$895,105 of preferred dividend return and a Company request of  
 213 \$299,439,931 of profit for shareholders or equity return.

214 It is important to note that the \$299,439,931 of shareholder profit being requested is an  
 215 after tax request. In other words, customers also must pay through rates return and  
 216 income (state/federal/revenue related) taxes such that the \$299,439,931 profit request is  
 217 available after all taxes are paid. Federal income taxes alone at a 35% rate would add  
 218 \$161,236,886 to customer rates.<sup>7</sup> Thus, to have \$299,439,931 of profit available for  
 219 shareholders – customers must pay through rates \$460,676,817 or \$161,236,886 for  
 220 income taxes and \$299,439,931 for shareholder profits.

221 **Q. GIVEN THE COMPANY’S REQUESTED CAPITAL STRUCTURE,**  
 222 **REQUESTED COST RATES FOR CAPITAL AND RATE BASE LEVEL, WILL**  
 223 **A SMALL CHANGE IN RETURN HAVE A SIGNIFICANT IMPACT ON**  
 224 **REVENUE REQUIREMENTS?**

225 A. Yes, a small change in return will have a significant impact on revenue requirements,  
 226 especially if a change is made to the equity return which impacts both return and income  
 227 taxes. As an example, if return on equity is adjusted downward by 25 basis points from

<sup>5</sup> Capital Structure and cost rates per Exhibit RMP\_\_(SRM-3) at page 2.1.

<sup>6</sup> Weighted cost times rate base investment of \$5,494,814,774 per Exhibit RMP\_\_(SRM-3) at page 1.1.

<sup>7</sup> Tax Factor equals 1/(1-tax rate), which is 1/(1-.35) which equals 1.53846154. This tax factor of 1.53846154 times the requested shareholder profit level requested equals taxes and profits.

228 the requested 10.50% to a level of 10.25%, return decreases by about \$7.1 million and  
229 return and federal income taxes on revenue requirement will decline by about \$10.97  
230 million per annum.

231 **SECTION IV: CURRENT CAPITAL MARKET CONDITIONS**

232 **Q. DO CURRENT ECONOMIC CONDITIONS WARRANT HIGHER RETURNS**  
233 **FOR UTILITY COMPANIES?**

234 A. In my opinion, no. While the financial markets, and the economy in general, have  
235 experienced periods of uncertainty and turmoil since September 2008, government  
236 intervention has had an impact on financial markets. I discuss this issue in the following  
237 pages. The end result is that cost of capital today is not higher as a result of the  
238 economic turmoil that impacted the global markets in the autumn of 2008. Moreover,  
239 the cost of capital continues to decline as evidenced by a review of historical bond  
240 yields, authorized equity returns set by regulatory authorities and the Company's  
241 testimony in this case. Quite simply, bond yields have declined over recent periods and  
242 equity returns authorized by regulatory authorities have also continued to decline in  
243 recent years.

244 **Q. ARE ECONOMIC CONDITIONS IMPROVING IN 2011?**

245 A. Yes, there certainly is improvement. The impacts of the global recession continued  
246 through 2009 and into 2010. The U.S. and more so foreign economies (certain  
247 Economic Union members) did struggle with financial issues following the collapse of  
248 the 2008 subprime mortgage markets. The Federal Reserve and central banks around  
249 the world continue to ramp up lending in an effort to keep the financial markets  
250 improving.

251 Recent financial problems in Europe continue to impact the global economic growth  
252 prospects. The Federal Reserve has taken numerous steps to address financial market  
253 liquidity issues including the cut in the federal funds rate to a target range of 0% to  
254 0.25% as of December 16, 2008. These rates continue to be reaffirmed by the Federal  
255 Reserve. I have included in my Exhibit (OCS 1.2), monthly bond yields for various  
256 securities showing changes by month since January 2006 through April 2011.

257 **Q. DO YOU HAVE ANY GENERAL OBSERVATIONS CONCERNING THE**  
258 **RECENT TRENDS IN ECONOMIC CONDITIONS AND THE IMPACT ON**  
259 **CAPITAL COSTS?**

260 A. Yes. As a general matter the U.S. economy enjoyed growth, prosperity and stability  
261 since the early 1990's. Over this time period there has been a general level of economic  
262 expansions accompanied by historical low levels of inflation and interest rates.

263 Now, the economy has slowed significantly at least initially as a result of the "sub-  
264 prime" mortgage problems and more recently as a result of the fall 2008 liquidity crisis  
265 in the financial markets. The financial sector crisis intensified through the last quarter of  
266 2008, following the collapse and/or bailout of such institutions as Bear Stearns, Lehman  
267 Brothers, Merrill Lynch, Freddie Mac, Fannie Mae, AIG and Citigroup, Inc. The U.S.  
268 Government and governments around the world have been and continue to employ  
269 unprecedented monetary actions to minimize the impacts of the financial crisis on  
270 economic growth.

271  
272 The one sure thing is that an economic slowdown has occurred and is expected to  
273 continue. For this reason economic growth will be lower than past forecast estimates  
274 have suggested. This is true across all economic sectors including the utility industry.  
275 Thus, while utility stock prices may be lower and dividend yields higher – the other side  
276 of the coin shows lower economic growth expectations by investors.

277 **Q. PLEASE DISCUSS THE FINANCIAL MARKETS, THE ECONOMY AND THE**  
278 **GENERAL RESPONSE OF THE U.S. GOVERNMENT.**

279 A. There is no question that the mortgage market collapse, subprime mortgage crisis,  
280 credit/liquidity crisis, economic recession and the subsequent bailout and restructuring  
281 of financial institutions has not only had tremendous impacts on the U.S. national  
282 economy, but global economic implications as well. After initial problems developed in  
283 the mortgage market, these problems associated with the subprime developed into a  
284 crisis which led to the collapse and need for bailout of certain financial institutions. The  
285 turmoil in the U.S. markets peaked in the third-quarter of 2008. During the summer of  
286 2008 commodity prices increased sharply with a barrel of oil increasing to over \$150

287 and natural gas exceeding \$12 mmbtu.

288 The U.S. economy entered the current recession in late 2007 and unemployment figures  
289 have been increasing. As of April 2011, the national unemployment rate continues at  
290 about 8.8%. The stock market for 2009 hit a low in March, but has since substantially  
291 rebounded from March 2009 levels. The change in course regarding commodity prices  
292 and the market downturn from early 2009 levels is evidence that the downward  
293 economic slide is over. While unemployment figures lag other economic indicators,  
294 growth of GDP continues, but at a slower than expected rate.

295 In response to the economic crisis, the Federal Reserve has taken substantial measures to  
296 stabilize financial markets and address the significant resulting liquidity crisis. Among  
297 the numerous Federal Reserve measures is the opening of lending facilities to numerous  
298 banking and investment firms to free up tight credit markets. The development of the  
299 Troubled Asset Relief Program (“TARP”) is designed to provide over \$700 billion in  
300 government funds into the banking system through capital infusions. In addition, the  
301 federal government has added billions of additional dollars to bail out and stabilize such  
302 prominent financial institutions as AIG, Citigroup and Bank of America. The federal  
303 government has expended substantial sums to bailout other industries such as the auto  
304 industry with cash for General Motors and Chrysler.

305 As part of the overall budget process, we have seen the federal government provide  
306 almost \$800 billion of economic stimulus – including tax cuts and additional  
307 government spending aimed at creating jobs and addressing the overall economic  
308 slowdown.

309 **Q. HOW HAVE THE FINANCIAL MARKETS RESPONDED TO THE ACTIONS**  
310 **OF THE FEDERAL RESERVE AND OTHER STIMULUS ACTIONS?**

311 A. The long-term credit market response was significant over the first two quarters of 2009.  
312 The credit/liquidity crisis is associated with concerns and reluctance by credit providers  
313 to provide needed capital due to concerns over the weak economy. As shown in Exhibit  
314 OCS 1.2, interest rates on BBB corporate rated bonds increased substantially, about  
315 7.0% in June 2008 to over 9.0% in November 2008. Since the November 2008 peak in

316 the midst of the liquidity crisis, BBB corporate rated bonds have steadily declined.  
317 Now, for April 2011, BBB corporate rated bonds have averaged about 6.02%<sup>8</sup> or are at  
318 levels seen prior to the liquidity crisis.

319 In summary, the market evidence appears to demonstrate that the massive government  
320 response has had the desired effect on credit markets. Actions by the Federal Reserve  
321 and the current administration show a continued commitment to restoring the economic  
322 health quickly. But, while the worst of the credit crisis may be over, the U.S. economy  
323 is in a slow recovery. Economic recovery is expected to gain momentum slowly with  
324 some economic segments and geographic regions growing more slowly than others.

325 Thus, while the economy is slowly changing course in terms of economic growth, the  
326 upheaval in financial markets is an event of the past as we see interest rates and capital  
327 costs moving to pre-financial crisis levels.

328 **Q. WHAT DOES THE FEDERAL RESERVE'S MOST RECENT ECONOMIC**  
329 **ASSESSMENT INDICATE?**

330 A. Minutes of the Federal Open Market Committee ("FOMC") meeting of March 15, 2011  
331 indicate that the Federal Reserve believes that the empirical evidence (at least since  
332 January 2011) suggests that economic recovery is on firmer footing. Household  
333 spending and business investment in equipment and software continue to expand.  
334 Nonresidential construction is weak while the residential construction market remains  
335 depressed.

336 While commodity prices have increased significantly since last summer, primarily  
337 driven by the sharp run up of oil prices, the Federal Reserve concludes that "...longer-  
338 term inflation expectations have remained stable, and measures of underlying inflation  
339 have been subdued."<sup>9</sup> The FOMC went on to state, "To promote a stronger pace of  
340 economic recovery and to help ensure that inflation...is at levels consistent with its  
341 mandate...the Committee is maintaining its existing policy of reinvesting principal  
342 payments from its securities holdings and intends to purchase \$600 billion of longer-

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<sup>8</sup> [www.federalreserve.gov/releaseh15date/weekly](http://www.federalreserve.gov/releaseh15date/weekly)

<sup>9</sup> Federal Reserve Press Release [www.federalreserve.gov/newsevents](http://www.federalreserve.gov/newsevents)



343 term Treasury securities by the end of the second quarter of 2011.”<sup>10</sup> The FOMC further  
344 stated at the March 2011 meeting that “...the target federal funds rate at 0 to ¼ percent  
345 and ...are likely to warrant exceptionally low levels for the federal funds rate for an  
346 extended period.”<sup>11</sup> Current expected growth in GDP over the 2011 to 2012 period is  
347 expected to remain moderate with unemployment levels to decline slightly, but remain  
348 elevated at the end of 2012.<sup>12</sup>

349 While the Federal Reserve current forecasts do not project an economic downslide into a  
350 double-dip recession, these new estimates are more cautious concerning expected pace  
351 of economic recovery.

352 **Q. WHAT CONCLUSIONS DO YOU DRAW FROM CURRENT ECONOMIC**  
353 **CONDITIONS IN PROVIDING GUIDANCE IN SETTING EQUITY CAPITAL**  
354 **COSTS IN THIS PROCEEDING?**

355 A. As a general matter capital costs remain low in comparison to historical levels. While  
356 the bottom tier of investment grade corporate bond rates (BBB) increased substantially  
357 during the liquidity crisis – such increases do not appear to be a trend, but rather the  
358 direct impact of an atypical event in the capital markets. Current BBB bond rates are at  
359 about the 6.0% level. The economic slowdown or recession, and modest growth in  
360 recovery, will cause general investor expectations of growth to be lower. The bottom  
361 line is that the general economic data does not support increasing capital costs. Further,  
362 it is not sound ratemaking to establish revenue requirements and rates on atypical or  
363 abnormal events – especially when such events (continuation of the financial liquidity  
364 crisis) are not likely to continue to be repeated.

365 **SECTION V: COST OF EQUITY CAPITAL DCF ANALYSIS**

366 **Q. YOU STATED ABOVE THAT YOU RELIED ON A DCF ANALYSIS. PLEASE**  
367 **DESCRIBE HOW YOU CONDUCTED YOUR DCF ANALYSIS.**

368 A. For my DCF analyses I employ a twenty company comparable risk group of companies

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<sup>10</sup> *Id*

<sup>11</sup> *Id*

<sup>12</sup> FOMC March 15, 2011 Minutes at 5.

369 because there is no market financial data for RMP. The Company is not publicly traded,  
370 thus, without financial data a DCF analysis cannot be computed directly on the  
371 Company. The comparable risk group of companies, for which there is market data  
372 available, serves as a proxy for the Company.

373 **Q. GIVEN THERE IS NO MARKET DATA FOR ESTIMATING THE**  
374 **COMPANY'S EQUITY COST, HOW DID COMPANY WITNESS DR.**  
375 **HADAWAY APPROACH THIS ISSUE?**

376 A. Dr. Hadaway relied on this same twenty company comparable group where market data  
377 is available as a proxy for the Company in his analysis.<sup>13</sup> Dr. Hadaway started with  
378 companies designated as electric utilities by Value Line Investment Survey and used  
379 screens to eliminate (i) non-dividend paying companies, (ii) companies with a bond  
380 rating below mid A levels, (iii) and eliminate all companies not having at least 70% of  
381 its revenues from electric utility operations.<sup>14</sup> This resulted in 20 companies for the  
382 comparable group data base that are listed in Dr. Hadaway's Exhibit RMP\_\_(SCH-1\_  
383 page 1.

384 **Q. DO YOU HAVE ANY CONCERNS REGARDING DR. HADAWAY'S**  
385 **COMPARABLE GROUP ANALYSES?**

386 A. I have no problems with his screen/selection process which is commonly used to select  
387 comparable or proxy group companies for these types of analyses. Given we are both  
388 using the same group of companies – differences in our analyses are limited to the data  
389 period employed and application of the DCF and equity cost measurement models.

390 **Q. WHY HAVE YOU EXAMINED COMPARABLE ELECTRIC COMPANIES?**

391 A. There are several reasons why the estimate of a cost of capital requires an analysis of a  
392 group of comparable risk companies rather than the single firm subject of the analysis:

393 (1) A comparable risk group analysis is consistent with the requirements of a fair  
394 and reasonable return addressed in the *Hope* and *Bluefield* cases. The return on

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<sup>13</sup> Direct Testimony Samuel Hadaway at 2:45-3:64

<sup>14</sup> *Id*

395 investment should be commensurate with returns earned by firms with  
396 comparable risk. Thus, there is a need to examine firms of comparable risk to  
397 identify the fair and reasonable comparable returns being earned. In addition, the  
398 equity returns of comparable firms are viewed as opportunity costs of forgone  
399 investments in the market which, like other investment opportunities, will  
400 directly impact the cost of equity of the Company.

401 (2) The reliability of the cost of equity estimate is enhanced when the calculation is  
402 based on equity capital estimates from a variety of risk equivalent companies. A  
403 group of comparable companies can be employed as a check on a single  
404 company analysis. Further, the comparable group analysis, whether employed as  
405 a check or the primary analysis, mitigates any distortions resulting from  
406 measurement errors in dividend yield and expected growth measures and  
407 estimates. For example, the average growth rate estimate based on forecasts of  
408 several comparable firms is less likely to deviate from investor expectations of  
409 growth than an estimate for a single firm. Moreover, the general assumptions  
410 underlying the DCF model are more likely to be met for a group of companies  
411 than for a single firm.

412 (3) An analysis of a comparable group also avoids circularity problems. In the  
413 analysis of investor-owned utilities, the stock price (that is, the cost of capital) is  
414 a direct function of an investor's growth rate expectations, which is also a  
415 function of an investor's perception of the regulatory environment. The bottom  
416 line is that the cost of equity depends in part on the anticipated regulatory  
417 environment and actions. Thus, both the components of the DCF model –  
418 dividend yield and growth expectations – are influenced by the regulatory  
419 process.

420 (4) Extending the sample size of comparable companies beyond a single regulatory  
421 influence will mitigate the regulatory circulatory problem. Specific conditions  
422 concerning a subject utility often requires that a comparable company analysis be  
423 employed. One of the most common conditions is the lack of market data  
424 necessary to perform a DCF analysis. In times of utility consolidation and  
425 merger, many utilities are owned and controlled by a single parent holding  
426 company, which is the case with the Company.

427 **Q. HAVE YOU PROVIDED A LISTING OF THE COMPANIES IN THE**  
428 **COMPARABLE GROUP?**

429 A. Yes. Contained in my Exhibit OCS 1.3 is a list of the companies in each of the two  
430 comparable groups, along with additional data of company Beta and historical 2009  
431 along with projected equity ratio for 2010, 2011, 2012, and 2014-2016, and bond rating  
432 by Standard & Poor's along with Moody's.

433 **Q. PLEASE EXPLAIN THE DCF METHODOLOGY YOU HAVE EMPLOYED IN**  
434 **YOUR ANALYSIS.**

435 A. The foundation of the DCF model is in the theory of security valuation. The price that  
436 an investor is willing to pay for a share of common stock today is determined by what  
437 income stream the investor expects to receive from the investment. The return the  
438 investor expects to receive over the investment time horizon is composed of: (i)  
439 dividend payments, and (ii) the appreciated sale value of the investment. A proper  
440 analysis adds dividends to the gain on the final sale value, and discounts these expected  
441 future earnings to a present value.

442 To determine or estimate investor requirements using the DCF model, one computes a  
443 cost of capital requirement, or discount rate from the current market data and the  
444 expected dividend stream. The DCF model stated as a formula is as follows:

445  
446 
$$K = D/P + G$$

447 where:

448  $K$  = required return on equity,

449  $D$  = dividend rate,

450  $P$  = stock price,

451  $D/P$  = dividend yield, and

452  $G$  = growth in dividends.

453

454

455 **Q. PLEASE EXPLAIN HOW YOU CALCULATED THE DIVIDEND YIELD FOR**  
456 **THE COMPARABLE COMPANIES.**

457 A. The dividend yield is the ratio of the dividend rate to the stock price. When calculating  
458 the dividend yield, one must be cautious and not rely on spot stock prices. One must be  
459 equally cautious not to rely on long periods of time as the data becomes unrepresentative  
460 of market conditions. The objective is to use a period of time such that the resulting  
461 dividend yield is representative of the prospective period when rates will be in effect.

462 While there is no fixed period for selecting the denominator of the dividend yield (i.e.,  
463 stock price), the key guideline is that the yield not be distorted due to fluctuations in  
464 stock market prices. On the other hand, dividends, the numerator of the yield  
465 calculation, are relatively stable, as opposed to the stock prices, which are subject to  
466 daily and cyclical market fluctuations. The selection of a representative time period will  
467 dampen the effect of stock market changes.

468 The price and dividend data used for each of the companies in each of the comparable  
469 groups is contained in my Exhibit OCS 1.4.

470 I have examined weekly closing stock prices for the period January 1, 2011 through  
471 April 29, 2011 for 6 week, 12 week, along with 52 week, and spot intervals to calculate  
472 a representative price for the dividend yield calculation. For this analysis, I have  
473 employed the 6 week average price in calculating the dividend yield.

474 To calculate dividends, I employed the current annualized dividend increased for  $\frac{1}{2}$  the  
475 growth rate. The resulting base (unadjusted) dividend yield is shown on my Exhibit  
476 OCS 1.4 for each of the comparable groups.

477 **Q. HOW DOES YOUR RECOMMENDED DIVIDEND YIELD COMPARE TO THE**  
478 **DIVIDEND YIELD ESTIMATE OF DR. HADAWAY?**

479 A. Dr. Hadaway's dividend yield average and median estimate for the electric utilities  
480 comparable group companies is 4.6% and 4.7% respectively.<sup>15</sup> The base and adjusted  
481 dividend yields I have computed based on more recent data for the comparable group are

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<sup>15</sup> Direct Testimony of Samuel Hadaway Exhibit RMP\_\_(SCH-4)

482 about 4.4% and 4.6%, and are about the same as the levels estimated by Dr. Hadaway.

483 **Q. PLEASE EXPLAIN HOW YOU HAVE CALCULATED THE EXPECTED**  
484 **GROWTH RATE IN YOUR DCF ANALYSIS FOR THE COMPANIES IN THE**  
485 **COMPARABLE GROUP.**

486 A. Like dividend yields, there exists no single or simple method to calculate growth rates.  
487 The calculation of investor growth expectations is the most difficult part of the DCF  
488 analysis. To estimate investor expectations of growth, I have examined historical  
489 growth and forecasted growth rates, and other financial data for each of the companies in  
490 the comparable group.

491 Implementation of the DCF model requires the exercise of considerable judgment with  
492 regards to estimating investor expectations of growth and it is a difficult task, but such  
493 difficulties are not insurmountable. Many factors affect capital markets in general and  
494 individual stocks specifically, investors are aware and informed of current economic  
495 conditions and expectations. Such economic variables entail the current state of the  
496 economy, the trade deficit, federal budget uncertainty, fiscal policy, inflation and  
497 Federal Reserve Board policies on interest rates.

498 Investors generally have good information on the economic and financial variables  
499 outlined above. All of this information is available quickly, especially in recent decades  
500 with easy access to the worldwide web. This information influences return expectations  
501 and, as a result, the maximum price an investor will pay for various securities.

502 Like the information available on the general economy, investors also have access to a  
503 wealth of information about particular types of securities, industries and specific  
504 company investments. This information is also factored into investor expectations and  
505 therefore the stock price individuals are willing to pay.

506 Common earnings growth rate forecasts and historical growth rate data may be found in  
507 the Value Line Investment Survey (“Value Line”) publication. These Value Line  
508 earnings estimates are five year projections in annual earnings. Again, Value Line is  
509 widely available to the public, and is a good source of earnings projections. Other  
510 earnings estimates are forecasted by Zacks as well as First Call projections, widely

511 available on the internet at Zacks.com and Yahoo Finance respectively. Those earnings  
512 projections along with other stock specific financial data provide a range of estimates of  
513 earnings and are readily available at no cost.

514 Another growth estimate is referred to as the sustainable growth or retention ratio  
515 growth estimate. To project future growth in earnings under the sustainable growth  
516 method, one multiplies the fraction of a firm's earnings expected to be retained (not paid  
517 out as dividends) by the expected return on book equity. As a formula:

$$518 \quad (\text{growth} = b \times r)$$

519 Where:

520  $b = 1 - (\text{dividends per share} / \text{earnings per share})$

521  $r = \text{earnings per share} / \text{net book value share}$

522 All the data necessary to calculate the elements of the sustainable growth method are  
523 available on a forecasted basis in Value Line.

524 **Q. PLEASE EXPLAIN YOUR GROWTH RATE ANALYSIS.**

525 A. I have included in my Exhibit OCS 1.5, a two page schedule, the growth rates I have  
526 reviewed in my analysis. The first set of growth rates examined is the five year and ten  
527 year historical growth rates in earnings per share as reported by Value Line. The second  
528 set of growth rates is the Value Line forecasted growth rates including the current Value  
529 Line forecast of earnings per share for each company in the comparable group. The  
530 third set of growth rates examined is the Zacks forecasted growth rates in earnings. The  
531 fourth growth estimate considered is the First Call growth rates which are readily  
532 available to investors at Yahoo Finance.

533 In addition, I have examined the growth rates based on the forecasted retention ratio  
534 growth estimate discussed above. These calculations are included in my Exhibit (OCS  
535 1.5) at page 2.

536 The growth rates described above provide a range of estimates for each of the  
537 comparable companies in the two comparable groups. The resulting range of average  
538 forecasted earnings growth rates for the electric utility comparable group is from 4.8%

539 to 5.5%. Relying on the combined forecasted earnings per share estimates and internal  
540 growth rate estimates, the growth rate average range can be narrowed to 4.8% to 5.1% as  
541 shown in Exhibit OCS 1.5, page 1.

542 **Q. HOW DO YOUR COMPARABLE GROUP GROWTH ESTIMATES COMPARE**  
543 **TO DR. HADAWAY'S GROWTH ESTIMATES FOR THE CONSTANT**  
544 **GROWTH DCF ANALYSIS?**

545 A. Dr. Hadaway's growth estimate for the electric utilities in the comparable group ranges  
546 from 5.5% - 6.0%.<sup>16</sup> My current median and mean estimates for this group are 4.85% to  
547 5.1%, and a midpoint of 4.9%. Thus, about 85 basis points lower than Dr. Hadaway's  
548 midpoint 5.75% estimate.

549 While my growth rate analyses are more current (as we both relied on Value Line and  
550 Zacks EPS forecast estimates), my analysis looks to other earnings estimates along with  
551 a sustainable growth calculation. Therefore, in my opinion, my analysis covers a wider  
552 array of growth estimates and is not as limited as Dr. Hadaway's proposal. I will discuss  
553 specific problems in Dr. Hadaway's analysis later.

554 **Q. PLEASE SUMMARIZE YOUR CONSTANT GROWTH DCF ANALYSIS.**

555 A. I have summarized these results in my Exhibit OCS 1.6. For the twenty company  
556 electric utility comparable group, based on an average yield and a growth rate, the ROE  
557 estimate range is 9.3% - 9.7%.

558 **Q. HAVE YOU CALCULATED ADDITIONAL DCF ANALYSES FOR THE**  
559 **COMPARABLE GROUP COMPANIES?**

560 A. Yes. I have calculated a two stage non-constant growth DCF analysis for the companies  
561 in each of the comparable groups.

562 **Q. PLEASE DESCRIBE YOUR TWO-STAGE NON-CONSTANT GROWTH DCF.**

563 This analysis calculates equity cost using a non-constant growth Two Stage DCF Model.  
564 The constant growth DCF model is often adjusted to reflect multiple growth  
565 assumptions because the constant growth rate assumption is often not consistent with

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<sup>16</sup> See Direct Testimony Dr. Hadaway Exhibit RMP\_\_(SCH-4)



566 investor expectations. As an example, it is often the case where short-term growth  
567 estimates are not consistent with long-term sustainable growth projections. In those  
568 instances, where more than one growth rate estimate is appropriate, a multi-stage non-  
569 constant growth model can be employed to derive a cost of capital estimate. In other  
570 words, the constant growth model is adjusted to incorporate multiple growth rate  
571 periods, assuring a constant growth (long-term) rate is estimated for a longer period.

572 For the electric utility comparable group, the first growth stage (years 1-4) of the model,  
573 the Value Line growth in dividends is employed and an annual dividend is calculated.  
574 The second stage (years 5 and beyond)<sup>17</sup> employs an earnings growth estimate based on  
575 the comparable group forecast EPS average of mean and median of 5.2%. The 5.2%  
576 growth estimate is the average of EPS growth estimates.

577 In the two-stage model the dividend cash flows are discounted equal to the price<sup>18</sup> paid  
578 for the stock. The calculated discount rate or internal rate of return is the cost of equity  
579 capital estimate.

580 **Q. WHAT ARE THE RESULTS OF THE TWO-STAGE NON-CONSTANT**  
581 **GROWTH DCF ANALYSIS?**

582 A. The results of the two-stage non-constant growth DCF analysis are shown in Exhibit  
583 OCS 1.7. The comparable group average indicates a cost of equity of 9.6%.

584

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<sup>17</sup> The model is ended at year 150.

<sup>18</sup> Price is based on the 6 week average discussed earlier.

585 **Q. PLEASE SUMMARIZE YOUR DCF ESTIMATES.**

586 A. The table below is a summary of the DCF results:

**TABLE 2**  
**SUMMARY OF COMPARABLE GROUP**  
**DCF ANALYSES**

DESCRIPTION	COMPARABLE GROUP ELECTRIC UTILITIES
Constant Growth DCF	9.3 - 9.7%
Non-Constant Growth Two Stage DCF	9.6%

587 This range of estimates of 9.3% to 9.7% indicates an average cost of equity of about  
588 9.5%.

589

590 **SECTION VI: RISK PREMIUM/CAPM COST OF EQUITY ESTIMATE**

591 **Q. PLEASE DESCRIBE THE RISK PREMIUM ANALYSIS.**

592 A. Debt instruments such as bonds (long-term debt) are less risky than common equity  
593 when both classes of capital are issued by the same entity. Bondholders have a prior  
594 contractual claim to the earnings of the corporation and returns on bonds are less  
595 variable and more predictable than stocks. The bottom line is that debt is less risky than  
596 equity. There are numerous return studies of capital market investments, all of which  
597 show lower returns with lower risks and higher returns with higher risk investments.  
598 These financial truisms provide a sound theoretical basis and foundation for the risk  
599 premium method for estimating equity costs. The risk premium approach is useful in  
600 that the analysis is based on current market interest rates, that is, the current observable  
601 cost of debt capital. But, the risk premium approach is not without its problems and  
602 drawbacks. In practice, there is considerable debate as to the time period to analyze in  
603 the determination of the bond/equity return risk spread. Historical debt/equity risk  
604 spreads measured over many decades may not be relevant to current capital market  
605 requirements. Others argue that a long-term analysis is necessary, since the goal is to

606 measure investors' long-term expectations.

607 Another version of the risk premium method is the capital asset pricing model  
608 ("CAPM"). Generally, the CAPM begins with a theoretically risk-free interest rate such  
609 as a three-month Treasury bill rate. The risk premium, or equity spread above and  
610 beyond the risk free rate is adjusted by the stock beta.<sup>19</sup> The risk free return measure is  
611 combined with the equity risk premium adjusted for the measure of beta to arrive at a  
612 CAPM result.

613 Like the risk premium discussed above, the CAPM is subject to measurement  
614 uncertainties. First, the general problem of how to measure the equity risk premium and  
615 the time period for which the premium is analyzed is subject to considerable debate.  
616 This problem and associated criticisms is generic to all variants of the risk premium  
617 model. Second, measures of beta are often unstable from period to period and may not  
618 reflect the equity risk spread measure.

619 For all of the above reasons, risk premium methods should be viewed with considerable  
620 caution. The risk premium analysis and CAPM described below consist of analyses of  
621 shorter time horizons and are employed as a check on the DCF results described earlier.

622 **Q. HOW DID YOU CALCULATE YOUR RISK PREMIUM ANALYSIS?**

623 A. For the calculation of risk premium I employed the basic analysis presented in Dr.  
624 Hadaway's Direct Testimony starting at page 31. This analysis is updated and  
625 corrected, employing a more recent single A corporate bond yield of 5.40%. The  
626 current Single "A" bond yield of 5.40% is as reported for composite bond yields by  
627 Yahoo Finance.

628 **Q. DESCRIBE YOUR RISK PREMIUM ANALYSIS?**

629 A. I examined authorized electric utility return on equity returns relative to Moody's  
630 average public utility bond yields. This analysis, similar to Dr. Hadaway's authorized  
631 return risk premium approach, is set forth in my Exhibit OCS 1.8. In this analysis I

---

<sup>19</sup> Beta is a measure of the volatility of the specific stock movement relative to that of a market measure such as the S&P 500. A beta below 1.0 means that a specific stock is less volatile than the market measure, while a beta above 1.0 indicates a specific stock is more volatile than the market measure.

632 estimate equity risk premiums by comparing authorized electric utility returns with  
 633 average public utility bond yields as reported by Moody's for the period 1980-2010.  
 634 The resulting risk premium is combined with the current single A corporate bond yield  
 635 to arrive at a cost of equity estimate.

636 I have provided a range of results by calculating or adjusting risk premium results by  
 637 adjusting for the impact of the inverse relationship between interest rates and risk  
 638 premiums.<sup>20</sup> The alternative risk premium estimate does not include this interest rate /  
 639 risk premium adjustment.

640 The resulting range of risk premium equity return estimates is 8.7% to 10.14%.

641 **Q. DID YOU CALCULATE ANY ADDITIONAL ANALYSES TO CHECK THESE**  
 642 **RESULTS?**

643 **A.** Yes. Relying on the results of the Morningstar Stocks, Bonds Bills and Inflation Market  
 644 Report for December 2010, I calculated risk premiums for stocks relative to long-term  
 645 corporate bonds for the period January 1, 1926 to December 31, 2010.<sup>21</sup> The risk  
 646 premiums are shown in the following table:

Table 3 Risk Premiums for Stocks Versus Long-Term Corporate Bonds 1926 - 2010		
	Geometric AVG Return	Arithmetic AVG Return
Stocks	9.9%	11.9%
Corporate Bonds	5.9%	6.2%
Risk Premium	4.0%	5.7%
Midpoint	4.85%	

647 Combining the 4.85% risk premium with current single "A" corporate bond yields of  
 648 5.40% results in a risk premium estimate of 10.25%. I would expect this check to be  
 649 slightly higher than specific utility results discussed above. But overall the check  
 650 indicates the equity return estimate should not be higher than the lower 10% levels.

651

<sup>20</sup> See Schedule (DJL-8)

<sup>21</sup> The Morningstar December 2010 Market Report is included in my workpaper with the OCS 1.8 backup material.

652 **CAPITAL ASSET PRICING MODEL ANALYSIS**653 **Q. WHY DID YOU EMPLOY THE CAPITAL ASSET PRICING MODEL?**

654 A. The Capital Asset Pricing Model (“CAPM”) is a fundamental truism of finance. The  
 655 basic or underlying assumption is that risk-averse investors demand higher returns for  
 656 assuming additional risk, and higher risk securities are priced to produce or yield higher  
 657 returns than lower-risk securities. Thus, by employing the CAPM one seeks to estimate  
 658 the risk premium or added return required for bearing incremental investment risk.

659 **Q. PLEASE EXPLAIN HOW YOU CALCULATED THE EQUITY RETURN**  
 660 **ESTIMATE EMPLOYING THE CAPM.**

661 A. Employing the basic CAPM formula denoted as follows:

662 
$$ROE = R_f + \beta(R_m - R_f)$$

663 Where:

664  $R_f$ = risk free rate;665  $\beta$ =Beta;666  $R_m$ = market return; and667  $R_m - R_f$ = market risk premium or MRP

668 This is the typical model structure employed by most financial analysts in estimating  
 669 equity returns.

670 **Q. WHAT RISK FREE ( $R_f$ ) VALUE DID YOU EMPLOY IN YOUR CAPM**  
 671 **ESTIMATE?**

672 A. I employed the most recent three month average of the 30 Year U.S. Treasury Bond  
 673 rates. This three month average from Exhibit OCS 1.2 is:

February 2011	4.65%
March 2011	4.51%
April 2011	4.50%
<u>3 Month Average</u>	<u>4.55%</u>

674

675 **Q. WHAT VALUE DID YOU EMPLOY FOR BETA IN YOUR CAPM ANALYSIS?**

676 A. I employed a beta estimate of 0.69, which is the average beta for the comparable group,  
677 as shown in my Exhibit OCS 1.3.

678 **Q. WHAT VALUE HAVE YOU EMPLOYED FOR THE MARKET RISK  
679 PREMIUM (“MRP”)?**

680 A. I have employed a MRP of 5.2% based on the following calculation:

DESCRIPTION <sup>22</sup>	GEOMETRIC AVG	ARITHMETIC AVG
Large Company Stock Returns (1/1/26 - 12/31/10)	9.9%	11.9%
Long Term Government Bonds	5.5%	5.9%
Risk Premium	4.4%	6.0%
Midpoint	5.2%	

681

682 **Q. WHAT IS THE RESULT OF YOUR CAPM ANALYSIS?**

683 A. Employing a beta value of 0.69, a risk free rate of 4.55%, and a MRP of 5.2% results in  
684 a CAPM estimate of:

685 
$$K = 4.55\% + 0.69(5.2\%)$$

686 
$$K = 4.55\% + 3.588\%$$

687 
$$K = 8.14\%$$

688

<sup>22</sup> Stocks, Bonds, Bills and Inflation Market Report, December 2010 at 12 on Table 7, see workpapers at OCS 1.8.

689 **Q. IN YOUR ANALYSES, HAVE YOU INCLUDED A CALCULATION OF THE**  
690 **ECAPM RETURN ESTIMATE FOR THIS CASE?**

691 A. Yes. Like the CAPM analysis discussed above, the ECAPM estimate of equity return  
692 relies on basic financial theory – wherein to correct for biased beta estimates, an  
693 adjustment is made so as not to understate the cost of equity.

694 **Q. PLEASE EXPLAIN THE REASON FOR EMPLOYING THE EMPIRICAL**  
695 **CAPITAL ASSET PRICING MODEL.**

696 A. A number of empirical studies testing the quality of CAPM estimates have concluded  
697 that the risk return trade-off for investors is not as steeply sloped as is predicted by  
698 CAPM results. In other words, low-beta securities earn more than CAPM predicts while  
699 high beta securities earn less than CAPM predicts. Thus, the plain or base CAPM  
700 overstates the sensitivity / relationship of the cost of capital to beta. The bottom line is  
701 that empirical studies find the risk return relationship is flatter or has a lower slope than  
702 what the CAPM estimates predict.

703 To correct for this CAPM beta related measurement error, an adjustment to the base  
704 CAPM formula to introduce a means to correct the risk return relationship is required.

705 The empirical version of the CAPM, or ECAPM, is often employed because empirical  
706 research has found low beta securities actually earn higher returns than levels estimated  
707 by CAPM and high beta securities earn lower returns than the levels predicted by  
708 CAPM.<sup>23</sup> To correct for this prediction error, the ECAPM formula includes a slight  
709 adjustment as follows:

$$710 \quad ECAPM = R_f + aMRP + (1 - a)\beta MRP$$

711 Where: all the terms are the same as described in the CAPM above and the term (*a*) =  
712 0.25% and (1-*a*) = 0.75% to make up a 1% adjustment factor.

713

714

---

<sup>23</sup> New Regulatory Finance, *Public Utility Reports 2006*, at 175-209.

715 The basic ECAPM formula is as follows:

716 ECAPM<sup>24</sup>

717 
$$K = R_f + 0.25(R_m - R_f) + 0.75\beta(R_m - R_f)$$

718 
$$K = 4.55\% + 0.25(5.2\%) + 0.75 \times 0.69(5.2\%)$$

719 
$$K = 4.55 + 1.3\% + 2.691\%$$

720 
$$K = 8.54\%$$

721 **Q. PLEASE SUMMARIZE YOUR COST OF EQUITY CAPITAL RESULTS FOR**  
722 **THIS CASE.**

723 A. The DCF results both constant and two-stage DCF for the comparable group companies,  
724 the CAPM and ECAPM, along with the updated risk premium and alternative risk  
725 premium analysis are summarized in the following table:

Table 4 Summary of Cost of Equity Modeling			
Description	Range		
DCF Constant Growth Electric Utility Group	9.3%	9.7%	
DCF Two-Stage Electric Utility Group	9.6%	9.6%	
<b>Average DCF</b>	9.45%	9.65%	
CAPM	8.1%		
ECAPM	8.5%		
Historical Risk Premium Authorized Electric Utility Returns	8.7%	10.1%	
<b>CAPM/RP Average</b>	8.4%	10.1%	

726 The DCF results range from 9.45% to 9.65%. The CAPM and risk premium approaches  
727 range from 8.4% to 10.1%. Relying on the DCF 9.45% and 9.65% range along with the  
728 risk premium range of 8.7% to 10.1% produces an overall range of about 9% to 10%.  
729 The DCF midpoint is about 9.55% while the risk premium midpoint is slightly lower at  
730 9.48%. All of these results lead to a 9.5% point estimate as reasonable.

731

<sup>24</sup>Stocks, Bonds, Bills and Inflation Market Report, December 2010 at 12 on Table 7.



732 **Q. HOW DO YOUR RANGE OF RESULTS COMPARE TO COMPANY WITNESS**  
733 **DR. HADAWAY'S SUMMARY OF EQUITY ESTIMATES?**

734 A. Dr. Hadaway's results average about 10.28%.<sup>25</sup> Thus, the Company's, albeit somewhat  
735 stale, analysis is somewhat close to current market results. My analysis indicates a 9.5%  
736 equity return. Thus, we are within 78 basis points before consideration of risk  
737 adjustments (which Dr. Hadaway ignored) to reflect the lower risk of RMP relative to  
738 the comparable group.

739 **SECTION VII: RISK MITIGATION FACTORS**

740 **Q. ARE THERE FACTORS THAT TEND TO MITIGATE RMP'S RISK THAT**  
741 **THIS COMMISSION SHOULD CONSIDER IN SETTING THE EQUITY**  
742 **RETURN IN THIS CASE?**

743 A. Yes. In setting the equity return and balancing the interests of customers and  
744 shareholders, the Commission should consider a number of factors in arriving at a  
745 specific equity return in this case. I have compiled a number of factors below that  
746 should be considered in evaluating shareholder risks in setting equity returns:

747 Risk and other Factors impacting RMP and Customers:

- 748 1) The Company's proposed capital structure with a 51.9% equity ratio  
749 provides the Company lower financial risk than the comparable group  
750 companies that have an average forecasted equity ratio of 49.0% or less;
- 751 2) On or about March 3, 2011, this Commission issued a Corrected Report  
752 and Order in Docket No. 09-035-15 authorizing the "Rocky Mountain  
753 Power Energy Balancing Account" ("EBA"). Rating agencies in  
754 particular view fuel factor adjustment clauses such as the EBA recently  
755 adopted on a four year Pilot basis as a risk reduction mechanism.
- 756 3) Forecasted Test Period in this case has been approved by the Commission  
757 on March 30, 2011. The test period will cover the twelve month period  
758 ending June 30, 2012. This test period reflects forecasted plant additions

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<sup>25</sup> Direct Testimony Dr. Hadaway at 32:669

- 759 and allows the Company to recover investment through rates more  
760 quickly avoiding regulatory lag risks.
- 761 4) Since the last case, the Company has implemented two filings under Utah  
762 Code §54-7-134 for major plant additions. Specifically, in Docket No.  
763 10-035-13 (MPA I), the Company filed for a revenue requirement  
764 adjustment of \$33.7 million reflecting cost recovery of Company  
765 investments in transmission facilities and generation plant improvement  
766 measures.<sup>26</sup> This Commission issued a June 15, 2010 Report and Order  
767 approving a Settlement Stipulation authorizing a revenue requirement  
768 increase of \$30.8 million. Also, in Docket No. 10-035-89 (MPA II), the  
769 Company filed for a revenue requirement increase of \$39 million related  
770 to transmission facilities and the Dunlap I wind project. In its December  
771 21, 2010 Report and Order approving a Settlement Stipulation the  
772 Commission authorized a revenue requirement increase of \$33.29 million  
773 for MPA II and allowed the Company to begin collecting the authorized  
774 revenue for both MPA I and MPA II on January 1, 2011. Again,  
775 regulatory lag is mitigated by affording cost recovery through stream-  
776 lined rate recovery mechanisms.
- 777 5) Cash flow and financial metrics are improved through opportunities  
778 flowing from use of bonus depreciation. RMP has more opportunities  
779 and benefits resulting from bonus depreciation because of the size and  
780 timing of its investment additions relative to other utilities.
- 781 6) An additional factor is rate design. In this case RMP is proposing a \$10  
782 customer charge for residential customers – a substantial increase to the  
783 current customer charge levels. Such a rate design assures revenue  
784 recovery and removes risk associated with sales revenues. Thus, to the  
785 extent this Commission adopts such rate design or decoupling proposals<sup>27</sup>  
786 (as proposed in the last rate case), RMP's revenue recovery risk is

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<sup>26</sup> See Docket No. 10-035-13 Application.

<sup>27</sup> My understanding is that the OCS does not generally support rate designs that include decoupling or high customer charges and will be providing evidence supporting alternatives in the COS/rate design portion of this case.

787 decreased and is a factor that should be considered in evaluating RMP's  
788 risks and equity return.

789 **Q. HOW DO EACH OF THE FACTORS IMPACT RMP'S RISKS?**

790 A. Starting with items (2) – (4), these factors, while generally not specifically quantifiable,  
791 all tend to reduce the Company's risks by minimizing regulatory lag in terms of cost  
792 recovery. While the Company is likely to assert that comparable companies have these  
793 same opportunities, (especially with regard to fuel cost recovery) that does not minimize  
794 the fact that RMP's risks are declining.

795 Further, the forecasted test year in this case, coupled with the opportunities for limiting  
796 regulatory lag through single issue or major plant addition filings put RMP's regulatory  
797 lag well below the industry average of about 11 months.

798 **Q. IF THESE FACTORS CANNOT BE SPECIFICALLY QUANTIFIED, HOW**  
799 **SHOULD THEY BE VIEWED IN EVALUATING AND SETTING EQUITY**  
800 **RETURN?**

801 A. When setting an equity return, experts and regulatory authorities often identify a  
802 "reasonable range" of equity returns. Factors such as risk reduction mechanisms  
803 associated with fuel recovery, major plant additions cost recovery, forecasted test years  
804 and minimizing regulatory lag are helpful in setting a specific return within a reasonable  
805 range. Thus, if risk is higher for a specific utility – then specific equity returns in the  
806 upper half of the range are more appropriate. Alternatively, if risks are lower, as they  
807 are in this case for RMP, the specific equity returns in the lower end of the range are  
808 more appropriate.

809 **Q. EARLIER YOU STATED THAT THE COMPARABLE GROUP EQUITY**  
810 **RATIO AVERAGES ABOUT 49% WHILE RMP'S REQUESTED TEST YEAR**  
811 **EQUITY RATIO IS ABOUT 52%. HOW DOES THIS IMPACT RISK?**

812 A. RMP has less debt and therefore less financial risk than the comparable group. Given  
813 that the DCF results are based on the comparable group – these estimates must be  
814 adjusted downward to reflect RMP's higher equity ratio and lower financial risk. I

815 estimate about a 25 basis point downward adjustment is necessary to RMP's equity costs  
816 to adjust for the Company's lower financial risk.

817 **Q. HOW DID YOU ESTIMATE A 25 BASIS POINT ADJUSTMENT FOR**  
818 **CAPITAL STRUCTURE?**

819 A. First, a review of empirical studies evaluating the effects of leverage (debt) on common  
820 equity indicates about 7.6 basis points equity return reduction for every 1 percent change  
821 in debt. A list of these studies is contained in my workpapers. Given the 3% difference  
822 between the comparable group equity ratio and RMP's requested 52% level; the equity  
823 return should be reduced by 22.8 basis points (3 x 7.6). I have rounded this to 25 basis  
824 points.

825 As a check I analyzed the overall return employing the comparable group 51% debt 49%  
826 equity and adjusted RMP's equity level to equalize the overall returns. The equity  
827 adjustment necessary was about 28 basis points. This calculation is also included in my  
828 workpapers.

829 The bottom line is that about a 25 basis point adjustment is justified because of the  
830 higher RMP equity ratio.

831 **Q. WHAT ISSUES ARE YOU ADDRESSING REGARDING BONUS**  
832 **DEPRECIATION?**

833 A. I am addressing the cash flow impacts that result from bonus depreciation. These cash  
834 flow impacts are significant in relation to this case given the size of the capital additions  
835 RMP is adding to the system. I am aware that this Commission has previously set up a  
836 separate proceeding to address bonus depreciation issues and I am also aware specific  
837 revenue requirement issues related to bonus depreciation have been raised and addressed  
838 in previous cases. The consideration of bonus depreciation on return does not impact  
839 the appropriate revenue requirement treatment which will be addressed in Docket No.  
840 11-035-47. My testimony only addresses the cash flow impact and results of certain  
841 financial metrics related to bonus depreciation.

842

843 **Q. WHAT IS BONUS DEPRECIATION?**

844 A. Quite simply, bonus depreciation is the acceleration or front-loading of depreciation  
845 expenses for tax purposes. As part of the most recent federal tax legislation (extension  
846 of the Bush tax cuts) under the “U.S. Tax Relief, Unemployment Insurance  
847 Reauthorization and Job Creation Act of 2010 (“2010 Tax Relief Act”) that was signed  
848 into law December 17, 2010, this legislation allows U.S. companies to depreciate 100%  
849 of the cost of eligible, newly installed equipment and assets after September 8, 2010 and  
850 before January 1, 2012. Beginning January 1, 2012, the first year depreciation rate will  
851 fall to 50 percent for the eligible equipment entering service in 2012.

852 **Q. DOES BONUS DEPRECIATION IMPACT EARNINGS?**

853 A. No, bonus depreciation does not impact the total amount of depreciation only the timing  
854 of the depreciation deduction, therefore there is no impact on Company earnings – only  
855 cash flow is impacted.

856 **Q. PLEASE PROVIDE A SIMPLE EXAMPLE OF HOW BONUS DEPRECIATION  
857 PROVIDES INCREASED CASH FLOW TO A COMPANY.**

858 A. Assume a firm makes an investment of \$1 million in new equipment that has a typical  
859 tax recovery life of 7 years. Under current depreciation schedules (assuming half year  
860 convention for MACRS<sup>28</sup> Property) the first year deduction for depreciation would be  
861 14.29% or \$142,900.<sup>29</sup> At a 35% income tax rate business taxes would be reduced by  
862 \$50,015 (35% x \$142,900). By contrast, under bonus depreciation employing the  
863 immediate 100% expensing of the asset, this hypothetical firm could deduct the entire \$1  
864 million in year 1, saving \$350,000 (35% x \$1 million) in taxes. This results in increased  
865 cash from tax savings of about \$300,000 (\$350,000 - \$50,015).

866 **Q. HOW DO CREDIT RATING AGENCIES VIEW THE BONUS DEPRECIATION  
867 IMPACTS ON CREDIT QUALITY?**

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<sup>28</sup> Modified Accelerated Cost Recovery System (MACRS) is the current tax depreciation system used to calculate annual tax deductible depreciation expenses by asset.

<sup>29</sup> Department of Treasury, Internal Revenue Service, Publication 946.

868 A. A recent (March 7, 2011) Fitch Rating Special Report on “Bonus Depreciation in the  
869 U.S. Utility Industry” concluded, that from “...a credit ratings perspective, one of the  
870 key considerations relating to bonus depreciation is how related cash is utilized. If the  
871 cash is used to reduce debt issuance, pre-fund the pension plan, or partially fund capital  
872 spending for the core business, that would be considered neutral to positive for credit.  
873 [But]...credit rating concerns may emerge if cash is used...for shareholder-friendly  
874 initiatives as eventually the tax bills will become due.”<sup>30</sup>

875 The Company’s proposal to pay \$850 million in increased shareholder dividends is the  
876 type of (shareholder-friendly) credit rating negative Fitch was describing above. Thus,  
877 the Company’s proposals in the case may have added negative impacts on consumers if  
878 credit rating agencies act on these “shareholder-friendly” \$850 million dividend  
879 payment Company proposals.

880 **Q. HOW MUCH IN REVENUE CASH FLOW DOES THE COMPANY EXPECT TO**  
881 **GENERATE FROM BONUS DEPRECIATION FOR THE YEARS 2010, 2011**  
882 **AND 2012?**

883 A. Based on the Company’s response to UIEC Data Request 1.69, the Company expects to  
884 generate cash flow of approximately \$554.5 million for 2010, \$411.3 million for 2011,  
885 and \$137.6 million for 2012. Thus, a total three year cash flow generation of \$1,103.4  
886 million.

887 **Q. IS THE INCREASED CASH FLOW FROM BONUS DEPRECIATION**  
888 **ANOTHER FACTOR THAT THE COMMISSION SHOULD CONSIDER?**

889 A. Absolutely. While the increased cash flow is not earnings – such cash flow does impact  
890 financial metrics (cash flow based) and perceptions of risk and ability to fund  
891 investment. Like other unquantified risk reduction factors – the increased cash flow  
892 warrants returns towards the bottom half of the equity return range.

893 **Q. HAD DR. HADAWAY TAKEN THESE RISK REDUCTION IMPACTS INTO**  
894 **CONSIDERATION, WOULD HIS EQUITY RETURN RESULTS BE LOWER?**

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<sup>30</sup> Fitch Ratings Special Report, “Bonus Depreciation in the U.S. Utility Industry”, March 7, 2011 at 2.

895 A. Absolutely. Dr. Hadaway's analysis ignores these factors when assessing equity return  
896 in this case – as a result his recommended return is overstated.

897 **Q. IS IT YOUR OPINION THAT A 9.5 PERCENT EQUITY RETURN IS**  
898 **SUPPORTED IN THIS CASE?**

899 A. Yes. A 9.5% equity return is consistent with the return ranges from the comparable  
900 group analyses. A 9.5% equity return is consistent with current market data. A 9.5%  
901 equity return is consistent with the lower risks faced by the Company's Utah operations  
902 as discussed above.

903 **SECTION VIII: CAPITAL STRUCTURE**

904 **Q. WHAT CAPITAL STRUCTURE IS THE COMPANY PROPOSING IN THIS**  
905 **PROCEEDING?**

906 A. Based on the direct testimony of Company witness Bruce Williams, the Company is  
907 proposing the following capital structure, cost rates and overall cost of capital to be  
908 earned on rate base investment as follows:

909 **TABLE 6<sup>31</sup>**  
910 **ROCKY MOUNTAIN POWER COMPANY**  
911 **OVERALL REQUESTED COST OF CAPITAL**  
912

<u>Description</u>	<u>Percent</u>	<u>Cost</u>	<u>Weighted Cost</u>
Long-Term Debt	47.8%	5.81%	2.78%
Preferred Stock	0.3%	5.43%	0.02%
Common Equity	<u>51.9%</u>	<u>10.50%</u>	<u>5.45%</u>
Total	<u>100.00%</u>	---	<u>8.25%</u>

913 Thus, the Company requests an overall cost of capital to be earned on rate base  
914 investment of 8.25% in this case.

915

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<sup>31</sup> DirectTestimony Bruce Williams

916 **Q. WHAT IS THE SIGNIFICANCE OF CAPITAL STRUCTURE?**

917 A. The overall cost of capital is the sum of the weighted average cost rates of various  
918 sources of capital. The quantity or portion of each type of capital, combined with the  
919 cost rate of capital determines the overall rate of return that the Company should be  
920 allowed to earn in this proceeding. The most significant relationship in any capital  
921 structure is the debt to equity ratio.

922 **Q. DOES THERE EXIST SOME SET RELATIONSHIP OR IDEAL MIX OF DEBT**  
923 **AND EQUITY CAPITAL?**

924 A. There exists no set debt/equity relationship for all firms or all industries in terms of  
925 leveraging. However, the ideal capital structure is one that minimizes the overall cost of  
926 capital to the firm, while still maintaining financial integrity so as to maintain the ability  
927 to attract capital at reasonable costs to meet future needs. Because the cost of debt is  
928 generally lower than the cost of equity, and also because the cost of debt represents a tax  
929 deductible expense, any increase in the quantity of debt capital tends to decrease the  
930 overall cost of capital relative to equity financing. One must keep in mind that increases  
931 in the quantity of debt financing can cause the financial risk of the Company to increase.  
932 In other words, there is a cost for the savings associated with increased debt leveraging.  
933 That cost is increased financial risk to the firm.

934 In summary, it is not possible to determine with precision the exact proportion of debt  
935 and equity that minimizes the overall cost of capital without imposing undue financial  
936 risk upon the Company. There does exist some range of capital structure that generally,  
937 meets the goal of minimizing the overall cost of capital while maintaining the firm's  
938 financial integrity.

939 **Q. WHAT CRITERIA SHOULD REGULATORS EMPLOY IN DETERMINING**  
940 **THE APPROPRIATE CAPITAL STRUCTURE TO BE USED FOR**  
941 **RATEMAKING?**

942 A. In my opinion, rate regulation should focus on two criteria to determine the appropriate  
943 capital structure. Those factors as outlined below should be economy and safety.



944 The advantage of debt in the capital structure is that debt costs less than equity.  
 945 Moreover, interest charges are deductible for income tax purposes and act to reduce  
 946 taxes. Thus, the more debt in the capital structure the lower the cost of capital will be.  
 947 The question of economy is addressed by examining whether increases in the debt ratio  
 948 act to increase the cost rates of both debt and equity so as to over balance the benefits of  
 949 the larger proportion of debt.

950 In addition, there is always the overriding question of financial safety. In other words,  
 951 financial risk is increased if the proportion of debt is increased by such a magnitude that  
 952 interest obligations cannot be covered during periods of depressed earnings.

953 **Q. ARE YOU RECOMMENDING AN ADJUSTMENT TO THE COMPANY'S**  
 954 **PROPOSED CAPITAL STRUCTURE?**

955 A. No. I have adjusted my equity return recommendation to reflect the lower financial risk  
 956 of RMP with its 51.9% equity ratio relative to the Comparable Group.

957 **Q. WHAT CAPITAL STRUCTURE AND COST RATES ARE YOU**  
 958 **RECOMMENDING THAT THE COMMISSION ADOPT IN THIS CASE?**

959 A. Based on the analyses and results discussed above, I am recommending the following  
 960 capital structure, cost rates and overall cost of capital for this case:

961 **TABLE 7**  
 962 **RECOMMENDED OVERALL COST OF CAPITAL**  
 963 **ROCKY MOUNTAIN POWER**

<u>Description</u>	<u>Ratio</u>	<u>Cost</u>	<u>Weighted Cost</u>
Long-term Debt	47.8%	5.81%	2.78%
Preferred Stock	0.3%	5.43%	0.02%
Common Equity	51.9%	9.50%	4.93%
Total	<u>100.00%</u>	---	<u>7.73%</u>

964 As can be seen from the above table when the Company proposed long-term debt and  
965 preferred stock cost rates and common equity cost rates reflecting current market  
966 conditions is employed, the Company's overall cost of capital is 7.73%.

967 **SECTION IX: FINANCIAL INTEGRITY**

968 **Q. HAVE YOU REVIEWED CREDIT RESEARCH REPORTS FOR THE**  
969 **COMPANY REGARDING CREDIT QUALITY AND CORPORATE**  
970 **FINANCIAL METRICS?**

971 A. The Company's credit quality is not threatened or under significant pressure of  
972 downgrade. Instead, the Company continues to benefit from the current ownership  
973 structure and backstop of capital. Current bonus depreciation impacts on cash flow will  
974 cause rating agencies to focus more on earnings or EBITA metrics as pure cash flow  
975 measures are temporarily influenced by current tax law impacts. In my opinion, these  
976 are the cash flow metrics rating agencies will consider.

977 An equity return of 9.5%, combined with all the risk mitigation benefits discussed  
978 earlier, allows the Company to maintain reasonable cost recovery.

979 **Q. WILL YOUR RECOMMENDED RETURN PROVIDE THE COMPANY**  
980 **SUFFICIENT CASH FLOW AND FINANCIAL METRICS TO MAINTAIN ITS**  
981 **FINANCIAL INTEGRITY?**

982 A. Yes. Based on the capital structure above, my recommended overall cost of capital  
983 (which is based on a 9.5% equity return) provides sufficient financial metrics for the  
984 Company.

985 **Q. WHAT FINANCIAL RATIOS OR FINANCIAL METRICS SHOULD THE**  
986 **COMMISSION CONSIDER WHEN EVALUATING COST OF EQUITY?**

987 A. In my opinion, the Commission should consider the financial metrics that bond rating  
988 agencies consider in evaluating credit risk to a Company. Three key financial metrics  
989 involve cash flow coverage of interest, cash flow as a percentage of debt, and debt

990 leverage ratio.

991 **Q. HOW ARE THESE FINANCIAL RATIOS CONSIDERED AND CALCULATED?**

992 A. Ratings agencies such as Moody's and Standard & Poor's develop rating guidelines that  
993 make explicit general ratings outcomes that are typical or expected given various  
994 financial and business risk combinations. A rating matrix or guideline is just that, a  
995 guideline, not a rule written in stone that guarantees a particular rating for a particular  
996 achieved financial metric level.

997 Funds from a company's operations, in other words cash flow, are very critical to any  
998 rating/risk consideration. Interest and principal obligations of a company cannot be paid  
999 out of earnings if earnings are not cash. Thus, analyses of cash flow reveal debt  
1000 servicing ability.

1001 Debt and capital structure considerations are indicative of leverage and flexibility to  
1002 address financial changes. The liquidity crisis that hit all markets and industries starting  
1003 last year is an example of the importance of financial flexibility. Stable and continuous  
1004 cash flows provide financial flexibility.

1005 Each of these financial ratios are calculated in my Exhibit (OCS 1.9) employing my  
1006 recommendations in this proceeding. The results of my analyses indicate strong  
1007 financial metrics, supporting the current bond rating.

1008 The resulting financial metrics at a 9.5% equity return are consistent with a solid single  
1009 A bond rating.

1010 **SECTION X: ISSUES RAISED IN DR. HADAWAY'S DIRECT TESTIMONY**

1011 **Q. DO YOU HAVE ANY GENERAL COMMENTS REGARDING DR.**  
1012 **HADAWAY'S ANALYSIS AND RECOMMENDATION IN THIS CASE?**

1013 A. Yes, I have a few general comments. First, Dr. Hadaway's 10.5 percent return on equity  
1014 recommendation is biased upwards due to his failure to include his risk premium results  
1015 – and his total failure to consider risk mitigation factors that benefit RMP relative to his  
1016 comparable group analysis.

1017 First, in arriving at his 10.5% equity return estimate Dr. Hadaway considered only his  
1018 comparable group discounted cash flow range of 10.1% to 10.7% and concluded a  
1019 10.5% point estimate to be reasonable.<sup>32</sup> Second, Dr. Hadaway's high end of the  
1020 estimates (10.7%) is the result of employing an overstated and totally unsupported GDP  
1021 growth estimate of 6.0%. Third, updating Dr. Hadaway's analyses and eliminating  
1022 unsupported growth estimates results in an average equity return of under 10%. Fourth,  
1023 taking into consideration this Commission's risk mitigation measures (forecasted test  
1024 year, fuel reconciliation EBA) single issue rate cases for major plant additions, the lower  
1025 financial risk of the Company relative to the comparable group, the ROE estimate  
1026 should be in the 9.5% range.

1027 **Q. HAS THE IDAHO PUBLIC UTILITIES COMMISSION RECENTLY**  
1028 **EVALUATED THE COMPANY'S RATES AND COSTS IN AN IDAHO RATE**  
1029 **CASE?**

1030 A. Yes, in a case referenced by Dr. Hadaway,<sup>33</sup> the Idaho Public Utilities Commission  
1031 authorized an equity return of 9.9%.<sup>34</sup> In arriving at a 9.9% equity return, the Idaho  
1032 Commission stated: "In authorizing a 9.9% return on common equity, this Commission  
1033 reaffirms its desire to maintain PacifiCorp as a financially viable utility with credit  
1034 ratings at or above the current level."<sup>35</sup>

1035 While Dr. Hadaway sponsored the Rocky Mountain Power Idaho return on equity  
1036 request of 10.6% with analyses similar to what have been presented in this Utah case –  
1037 the Idaho Commission found a much lower equity return to be reasonable.<sup>36</sup> Further,  
1038 there is no evidence that the numerous risk mitigation factors<sup>37</sup> present in the current  
1039 Utah case were present in the Idaho case. Thus, a lower equity return is supported for  
1040 the Company's Utah operations.

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<sup>32</sup> Direct Testimony Samuel Hadaway at 1:21-2:29.

<sup>33</sup> Direct Testimony Samuel Hadaway at 2:30-44.

<sup>34</sup> In the Matter of the Application of PacifiCorp DBA Rocky Mountain Power for Approval of Changes to its Electric Service Schedules, Case No. PAC-E-10-07, Order No. 32196, February 28, 2011.

<sup>35</sup> *Id* at 12.

<sup>36</sup> *Id* at 11-12.

<sup>37</sup> *Id* at 2, For example, the test year in the Idaho case was the twelve months ending December 31, 2009, adjusted for known and measurable changes through December 31, 2010. In the current Utah case, the test period is forward looking through June 30, 2012.

1041 **THE UTAH COMMISSION PROVIDES AN INDEPENDENT ASSESSMENT OF**  
1042 **THE COMPANY, WHY WOULD THE FEBRUARY 11, 2011 IDAHO DECISION BE**  
1043 **RELEVANT?**

1044 A. The very recent Idaho decision does provide this Commission some insight as to how  
1045 other regulatory authorities are viewing the Company's capital costs and risks.  
1046 Moreover, even Dr. Hadaway thought the Idaho decision important enough that he  
1047 attempts to explain the 9.9% ROE away due to the temporary drop in interest rates. Dr.  
1048 Hadaway is incorrect in his interest rate analysis and the Idaho Commission makes very  
1049 clear in their February 11, 2011 Final Order that it finds "...the middle ground position  
1050 advanced by Staff witness Carlock to be reasonable."<sup>38</sup> Further, the Staff testimony and  
1051 recommendation was supported by DCF and comparable earnings analyses<sup>39</sup> - not, as  
1052 Dr. Hadaway now claims, a sudden drop in interest rates.

1053 It is also important to note that the Idaho Commission also considered the following  
1054 factors in setting the equity return:

- 1055 1) Reduced risk of PacifiCorp for the Energy Cost Adjustment Mechanism  
1056 (ECAM)  
1057 2) Increased cost recovery risk caused by allocation changes of Irrigation  
1058 Load Control Program Costs;  
1059 3) Delays in plant recovery and cash flow impacts; and  
1060 4) Ability to fund near term capital expansion.

1061 All of the above, when combined with the evidence in this case, supports a cost of equity  
1062 in the 9.5% range, well below Dr. Hadaway's 10.5% proposal.

1063 **Q. DO YOU HAVE ANY COMMENTS REGARDING DR. HADAWAY'S DCF**  
1064 **CALCULATIONS?**

1065 A. The overall comment I have is that his GDP 6% growth estimate used in one of the  
1066 constant growth DCF analyses is overstated and should be ignored by the Commission.  
1067 Dr. Hadaway's sixty year analysis is out of touch with current market realities and  
1068 exceeds current analysts' growth projections by at least 80 basis points. Moreover, as

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<sup>38</sup> *Id* at 11

<sup>39</sup> *Id* at 9.

1069 noted earlier, the recent Federal Reserve FOMC meeting indicates much more moderate  
1070 GDP growth for some time. Dr. Hadaway's estimate is inconsistent with market  
1071 realities. There is no evidence or basis to conclude that investors are relying on a 6%  
1072 growth in long-run GDP as the basis for their investment decisions.

1073 **Q. DID DR. HADAWAY ADJUST HIS RESULTS FOR CAPITAL STRUCTURE**  
1074 **DIFFERENCES?**

1075 A. No, he ignored RMP's lower financial risk relative to the comparable group.

1076 **Q. DID DR. HADAWAY MAKE ANY RISK ADJUSTMENTS?**

1077 A. No.

1078 **Q. IN THE COMPANY'S LAST GENERAL RATE CASE, DOCKET NO. 09-035-23,**  
1079 **DID DR. HADAWAY INCORRECTLY ARGUE THAT EQUITY CAPITAL**  
1080 **COSTS WERE INCREASING?**

1081 A. Yes. As noted at page 13 of this Commission's Final Order, the following is stated:  
1082 "...Messrs. Peterson and Lawton conclude capital costs are decreasing, but Dr. Hadaway  
1083 claims capital costs are increasing." Dr. Hadaway's increasing capital cost claims have  
1084 been proven incorrect. Now, Dr. Hadaway is recognizing capital costs have declined  
1085 and continue to decrease. Dr. Hadaway is now recommending a 10.50% equity return  
1086 down from his previous 11.0% recommendation.

1087 There is no question in this case about whether capital costs are declining; even the  
1088 Company recognizes that obvious fact. The issue now before the Commission is at what  
1089 lower level the equity return should be set. As noted earlier, the market operational risks  
1090 for the Company are lower than the comparable group. Regulatory lag is reduced  
1091 through forecasted test periods and single issue ratemaking for major plant additions.  
1092 Risk of fuel cost under-recovery is reduced with the current pilot fuel cost recovery  
1093 mechanism. Further, RMP's financial risk is lower than the average comparable group  
1094 given the Company's higher equity ratio – necessitating about a 25 basis point  
1095 adjustment.

1096 Taking all of the above into consideration, an equity return below 10% is required and a

1097 level of 9.5% is quite reasonable.

1098 **Q. DOES THIS CONCLUDE YOUR TESTIMONY?**

1099 A. Yes.