Witness OCS – 1S

BEFORE THE PUBLIC SERVICE COMMISSION OF UTAH

In the Matter of the Application of)	
Rocky Mountain Power for Authority to)	Docket No. 20-035-04
Increase its Retail Electric Utility Service)	
Rates in Utah and for Approval of its)	
Proposed Electric Service Schedules and)	Phase I – Cost of Capital
Electric Service Regulations)	

SURREBUTTAL TESTIMONY OF

DR. J. RANDALL WOOLRIDGE

FOR THE

OFFICE OF CONSUMER SERVICES

OCTOBER 8, 2020

1	Q.	PLEASE STATE YOUR FULL NAME, ADDRESS, AND OCCUPATION.
2	А.	My name is J. Randall Woolridge, and my business address is 120 Haymaker Circle,
3		State College, PA 16801. I am a Professor of Finance and the Goldman, Sachs & Co.
4		and Frank P. Smeal Endowed University Fellow in Business Administration at the
5		University Park Campus of Pennsylvania State University. I previously filed
6		testimony in this case for the Utah Office of Consumer Services (OCS) to provide an
7		opinion as to the fair rate of return or cost of capital for PacifiCorp d/b/a Rocky Mountain
8		Power ("RMP" or the "Company").
9	Q.	WHAT IS THE PURPOSE OF YOUR SURREBUTTAL TESTIMONY?
10	А.	I will respond to the rebuttal testimony of RMP witnesses Ms. Nikki L. Kobliha and
11		Ms. Ann Bulkley.
12	Q.	PLEASE OUTLINE THE ISSUES YOU ARE ADDRESSING IN YOUR
13		SURREBUTTAL TESTIMONY?
14	А.	I am covering the following issues in my surrebuttal testimony:
15		I. Summary of Positions
16		II. Authorized ROEs and Capital Market Conditions
17		III. Capital Structure
18		IV. The Riskiness of RMP
19		V. Equity Cost Rate Issues
20		A. Analysts' Projected EPS Growth Rates
21		B. CAPM Analysis
22		C. The Expected Earnings Approach
23		

24		I. Summary of Positions
25		
26	Q.	PLEASE REVIEW THE COMPANY'S PROPOSED RATE OF RETURN OR
27		COST OF CAPITAL.
28	A.	In her rebuttal testimony, RMP witness Ms. Nikki L. Kobliha continues to recommend
29		a capital structure consisting of 46.32% long-term debt, 0.01% preferred stock and
30		53.67% common equity. She has updated her debt cost rate to reflect the issuance of
31		two new series of long-term debt - \$400 million of 2.70% mortgage bonds due
32		September 2030 and \$600 million of 3.30% first mortgage bonds due March 2051.
33		Her new long-term debt and preferred stock cost rates are 4.79% and 6.75%. RMP
34		witness Ms. Ann E. Bulkley has updated her common equity cost rate analysis and has
35		maintained that her initial 10.20% recommendation for RMP from her direct
36		testimony is still appropriate. However, the Company has chosen to lower its
37		requested ROE to 9.80% in its updated filing. As shown in Table 1, the Company's
38		overall proposed rate of return is now 7.48%.

39 40

Table 1	
RMP's Rate of Return Recommendation	

Component	% of Total		Cost %	Weighted Ave Cost %	
Long-Term Debt	46.32	%	4.79%	2.22	%
Preferred Stock	0.01	%	6.75%	_	%
Common Stock Equity	53.67	%	9.80%	5.26	%
	100.00	%		7.48	%

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43 Q. PLEASE REVIEW YOUR RECOMMENDATIONS REGARDING THE
44 APPROPRIATE MARKET-BASED RATE OF RETURN FOR RMP.
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45 A. I have reviewed the Company's proposed capital structure and overall cost of capital.
46 As I noted in my direct testimony, RMP's proposed capitalization has more equity and

47 less financial risk than the average current capitalizations of electric utilities. Hence, 48 I used a capital structure that is more reflective of the capital structures of electric 49 utility companies. I am using a capital structure consisting of 50.0% debt/preferred 50 stock and 50.00% common equity. To estimate an equity cost rate for the Company, I 51 have applied the Discounted Cash Flow Model ("DCF") and the Capital Asset Pricing 52 Model ("CAPM") to my proxy group of electric utility companies ("Electric Proxy 53 Group"). I have also applied my analysis to Ms. Bulkley's Proxy Group ("Bulkley 54 Proxy Group"). My DCF and CAPM analyses indicate an equity cost rate range of 55 7.60% to 8.95%.

56 Q. WHAT IS YOUR PRIMARY RATE OF RETURN RECOMMENDATION FOR 57 RMP?

58 A. As noted, my equity cost rate studies indicate ROEs between 7.60% and 8.95%. I 59 believe that this range accurately reflects current capital market data. However, I 60 recognize that this range is below the authorized ROEs for electric utility companies 61 nationally. Therefore, my primary ROE recommendation for RMP is 9.0%. This 62 recommendation: (1) gives weight to the higher authorized ROEs for electric utility 63 companies; and (2) recognizes the concept of 'gradualism' in which authorized ROEs 64 are adjusted on a gradual basis to reflect changing trends in capital market data. Given 65 my recommended capitalization ratios and RMP's updated proposed long-term debt 66 and preferred stock rates (4.79% and 6.75%), my primary rate of return or cost of 67 capital recommendation for the Company is 6.90% and is summarized in Table 2.

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- 69

70		Table 2				
71	OCS' Updated 1	OCS' Updated Primary Rate of Return Recommendation				
		Capitalization	Cost	Weighted		
	Capital Source	Ratios	Rate	Cost Rate		
	Long-Term Debt	49.99%	4.79%	2.39%		
	Preferred Stock	0.01%	6.75%	0.00%		
	Common Equity	<u>50.00%</u>	<u>9.00%</u>	<u>4.50%</u>		
	Total Capital	100.00%		6.90%		

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73 DID YOU ALSO PROVIDE AN ALTERNATIVE RATE OF RETURN Q 74 **RECOMMENDATION FOR RMP?**

75 A. Yes. My alternative rate of return recommendation uses RMP's proposed capital 76 structure of 46.32% long-term debt, 0.01% preferred stock, and 53.67% common 77 equity as well as RMP's updated long-term debt cost and preferred stock cost rates of 78 4.79% and 6.75%. With respect to the equity component of my recommendation for 79 rate of return, my alternative ROE recommendation is 8.75%, which is at the high end 80 of my equity cost rate range of 7.60% to 8.95%. Given my alternative capitalization 81 ratios and senior capital cost rates, based on the Company's proposed capital structure, 82 my alternative rate of return or cost of capital recommendation for the Company is 83 6.92% and is summarized in Table 3.

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- 85
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Table 3
OCS' Updated Alternative Rate of Return Recommendation

	Capitalization	Cost	Weighted
Capital Source	Ratios	Rate	Cost Rate
Long-Term Debt	46.32%	4.79%	2.22%
Preferred Stock	0.01%	6.75%	0.00%
Common Equity	<u>53.67%</u>	<u>8.75%</u>	<u>4.70%</u>
Total Capital	100.00%		6.92%

87		II. Authorized ROEs and Capital Market Conditions
88		
89	Q.	PLEASE REVIEW THE COMMISSION'S ORDER ON ROE IN RMP'S LAST
90		RATE CASE.
91	A.	On August 29, 2014, the Commission approved a settlement between the Company
92		and intervenors in Docket No, 13-035-184. The settlement included a capital structure
93		of 48.55% long-term debt, 0.02% preferred stock, and 51.43% common stock equity, debt
94		and preferred cost rates of 5.20% and 6.75%, and a ROE of 9.80%. The overall rate of
95		return on rate base was 7.57%. ¹
96	Q.	HAVE CAPITAL COSTS INCREASED OR DECREASED SINCE THE
97		COMPANY'S LAST RATE CASE?
98	A.	Interest rates and capital costs have declined since the last case. As I showed in my
99		direct testimony, the 30-year Treasury yield averaged about 3.0% between 2012 and
100		2018. During that time, the authorized ROEs in Utah were in the 9.80% range.
101		However, the economy slowed and interest rates declined in 2019, and these yields
102		continued to decline in 2020 and then dropped significantly when the novel
103		coronavirus hit, significantly impacting the world's population, economy, and
104		financial markets. This decline in interest rates and capital costs is one reason why
105		RMP's authorized ROE must be lower than the 9.80% set in 2014 in RMP's last rate
106		case, contrary to RMP's rebuttal position.

¹ In the Matter of the Application of Rocky Mountain Power Company for authority to Increase its Retail Electric Utility Service Rates in Utah and for Approval for its Proposed Electric Service Schedules and Electric Service Regulations, August 29, 2014.

107 WHAT HAS HAPPENED TO AUTHORIZED ROES IN UTAH? Q.

- 108 The only recent ROE determination in Utah was for the gas distribution service of A. 109 Dominion Energy Utah, which was awarded a 9.5% ROE in a fully-litigated case. The 110 Order in that case was dated February 25, 2020, which is effectively pre-coronavirus.
- 111 AT PAGE 23 OF HER REBUTTAL TESTIMONY, MS. BULKLEY REFERS Q.
- 112

TO THE COMPANY'S RECENT ROE FROM ITS RATE CASE 113 SETTLEMENT IN WASHINGTON. PLEASE RESPOND.

Ms. Bulkley refers to 2016 and 2020 rate cases in Washington involving PacifiCorp. 114 A. 115 She notes that the 9.50% ROE adopted in 2020 is the same ROE authorized in the 116 2016 case and uses this observation to suggest that: (1) ROEs have not declined despite 117 the decline in interest rates; and (2) this Commission should keep RMP's authorized 118 ROE in Utah at 9.80%, which it was awarded in 2014. There are several issues with 119 these observations. First, the 2020 Washington case is a settlement. As Ms. Bulkley 120 acknowledges, there are usually give-and-take items in a rate case settlement, which 121 can include ROE, capital structure, and many different elements in a rate case. 122 Second, the agreed upon capital structure in the 2020 Washington case included a common equity ratio of 49.10%,² which is much lower than RMP's proposed common 123 124 equity ratio of 53.67%. Because higher equity means less risk, a 9.50% ROE at 125 49.10% equity means RMP should accept an ROE lower than 9.50% at a much higher 126 equity ratio, such as at its requested 53.67% in this case.

² See Washington Utilities and Transportation Commission Docket No. UE-191024, Stipulation dated July 17, 2020. The stipulation adopts the capital structure from PacifiCorp's last rate case in Washington, filed in 2015, in which the WUTC authorized a 49.10% equity ratio.

128 Q. WHAT ARE THE REVENUE REQUIREMENT IMPLICATIONS OF THESE

129 ALTERNATIVE CAPITAL STRUCTURE – AUTHORIZED ROE

130 SCENARIOS FROM THE WASHINGTON RATE CASE SETTLEMENT?

- 131 A. OCS witness Ms. Ramas has provided the revenue requirement implications of the
- 132 alternative capital structure authorized ROEs scenarios discussed above. They are
- 133 provided in Table 4.

Table 4Utah Revenue Requirement Implications of AlternativeCapital Structure – ROE Scenarios

(59,285,929)
(39,970,796)
(39,964,158)
49,511,653
5,963,188
6,039,814
c (7/1/2021)
72,049,907
27,653,609
27,731,727

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As discussed above, if RMP is authorized a 53.67% equity ratio in Utah, the company would be less risky than with its 49.1% equity ratio in Washington. This means that RMP's ROE in Utah should be lower than the 9.50% that it recently agreed to in Washington. Table 4 above shows that at a 53.67% equity ratio, RMP's ROE in Utah should be 9.0%, to be equivalent to its settlement in the Washington case.

146 Q. HAS MS. BULKLEY RECOGNIZED THAT INTEREST RATES AND 147 CAPITAL COSTS HAVE DECLINED?

A. No. She clearly ignores the impact of low interest rates which seems to suggest that
she believes that the level of interest rates has nothing to do with the return the equity
investors require. Ms. Bulkley's direct and rebuttal testimonies and the results of her
analyses indicate that the decline in interest rates does not matter to capital costs. This
ignores the direct relationship between lower interest rates and lower capital costs.

153 Q. DOES RMP WITNESS BULKLEY HIGHLIGHT THE ACTIONS OF THE 154 FEDERAL RESERVE IN RESPONSE TO THE CORONAVIRUS 155 PANDEMIC?

A. Yes. Ms. Bulkley notes that the Federal Reserve has been active in monetary policy
to support the economy in the wake of the coronavirus pandemic. Incredibly, she
ignored a recent major pronouncement by Federal Reserve Chair Jerome Powell. In
an interview on NPR on September 4th, Mr. Powell stated that the Fed would keep
interest rates low for a number of years: "We think that the economy's going to need
low interest rates, which support economic activity, for an extended period of time ...
It will be measured in years."³ Subsequently, on September 15, 2020, Federal Reserve

³ Jeff Cox, "Powell says duration of low interest rates 'will be measured in years'," CNBC, September 4,

officials made more specific Mr. Powell's September 4th comments, projecting
that they would keep interest rates near zero through 2023 to help the economy fully
recover from the pandemic.⁴

166 Q. MS BULKLEY DOES NOT DISCUSS HOW THE FED'S ACTIONS HAVE

167 IMPACTED UTILITY BOND YIELDS. HAVE UTILITY BONDS YIELDS 168 DECLINED WITH TREASURY BOND YIELDS?

A. Yes. Figure 1 shows 30-year Treasury yields (Panel A), long-term 'A' rated utility
yields (Panel B), and the yield differentials between these two yields (Panel C) over
the 2000-20 time period. The yield differentials in Panel C shows that the spread
between utility and Treasury yields has increased dramatically during the 2008
financial crisis and during March of this year as a result of the coronavirus. The yield
differential has declined significantly in recent months, and is now back to the 1.0%
to 1.5% range which it has been historically.

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2020.

⁴ https://www.politico.com/news/2020/09/16/federal-reserve-zero-interestrate416202#:~:text=Federal%20Reserve%20officials%20on%20Wednesday,probably%20have%20to%20 do%20more.





Source: https://fred.stlouisfed.org/series/DGS30

Panel B Long-Term 'A' Utility Bond Yields



Source: https:Mergent



178 Q. HAVE UTILITIES TAKEN ADVANTAGE OF THE LOWER BOND YIELDS 179 TO RAISE CAPITAL?

A. Yes. Figure 2 shows the amount of capital raised in debt (Panel A) and equity capital markets from 2016-2020. Utilities have especially taken advantage of the low interest rates; as of October 2, 2020, they have already raised a record amount of capital in the debt markets this year. The amount of equity raised by utilities is shown in Panel B. For 2020 year-to-date, the amount of equity is down a little relative to 2019, but this figure is only for the first nine months of 2020.



Figure 2

Source: S&P Global Market Intelligence.





Source: S&P Global Market Intelligence.

188	Q.	IN HER DIRECT AND REBUTTAL TESTIMONIES, MS. BULKLEY IMPLIES
189		THAT INTEREST RATES AND CAPITAL COSTS ARE ABOUT TO
190		INCREASE, AND SHE USES HIGHER PROJECTED INTEREST RATES IN
191		HER CAPM AND RISK PREMIUM MODELS. PLEASE RESPOND.
192	A.	Ms. Bulkley argues that my ROE recommendations for RMP are not justified by current
193		and expected market conditions. In her discussion of capital market conditions, Ms.
194		Bulkley points to forecasts of long-term interest rates to imply that capital costs are about
195		to increase and uses these forecasts in her CAPM and risk premium approaches.
196	Q.	PLEASE DISCUSS THE FORECASTS OF HIGHER INTEREST RATES BY
197		ECONOMISTS AND OTHER PROFESSIONAL FORECASTERS.
198	A.	In my direct testimony, I highlighted that the consensus forecasts of economists are that
199		interest rates are going higher and these forecasts are continually wrong. On this issue,
200		I highlighted the following: (1) after the announcement of the end of Quantitative
201		Easing III ("QEIII") program in 2014, all the economists in Bloomberg's interest rate
202		survey forecasted interest rates would increase in 2014, and 100% of the economists
203		were wrong; ⁵ (2) <i>Bloomberg</i> reported that the Federal Reserve Bank of New York has
204		gone as far as stopping use of interest rate estimates of professional forecasters in its
205		interest rate model; ⁶ (3) a study entitled "How Interest Rates Keep Making People on
206		Wall Street Look Like Fools," which evaluated economists' forecasts for the yield on

⁵ Ben Eisen, "Yes, 100% of economists were dead wrong about yields, *Market Watch*," October 22, 2014.

⁶ Susanne Walker and Liz Capo McCormick, "Unstoppable \$100 Trillion Bond Market Renders Models Useless," *Bloomberg.com* (June 2, 2014). http://www.bloomberg.com/news/2014-06-01/the-unstoppable-100-trillion-bond-market-renders-models-useless.html.

ten-year Treasury bonds at the beginning of the year for the last ten years.⁷ The results
demonstrated that economists consistently predict that interest rates will go higher,
and interest rates have not fulfilled the predictions; and (4) a study that tracked
economists' forecasts for the yield on ten-year Treasury bonds on an ongoing basis
from 2010 until 2015, entitled "Interest Rate Forecasters Are Shockingly Wrong
Almost All of the Time," demonstrate how economists continually forecast that
interest rates are going up, and they do not.⁸

214 Q. PLEASE SUMMARIZE YOUR DISCUSSION OF THE INTEREST RATE 215 FORECASTS USED BY MS. BULKLEY.

216 A. I recommend that the Commission ignore these forecasts because, as demonstrated in the 217 above studies, economists are always predicting that interest rates are going up, and they 218 have consistently been wrong. Ms. Bulkley makes a significant error in suggesting that 219 investors share economists' views of higher rates and that these views are incorporated 220 into their decision making. I highlight that investors would not be buying long-term 221 Treasury bonds at current yields today if they followed economists' interest rate forecasts 222 because a near-term increase in interest rates would result in a negative rate of return on 223 those bonds.

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⁷ Joe Weisenthal, "How Interest Rates Keep Making People on Wall Street Look Like Fools," Bloomberg.com, March 16, 2015. http://www.bloomberg.com/news/articles/2015-03-16/how-interestrates-keep-making-people-on-wall-street-look-like-fools.

⁸ Akin Oyedele, "Interest Rate Forecasters Are Shockingly Wrong Almost All of the Time," *Business Insider*, July 18, 2015. http://www.businessinsHider.com/interest-rate-forecasts-are-wrong-most-of-the-time- 2015-7.

227		III. Capital Structure
228		
229	Q.	PLEASE REVIEW THE CAPITAL STRUCTURE ISSUES IN THIS CASE.
230	A.	The Company has proposed a capital structure consisting of 46.32% long-term debt,
231		0.01% preferred stock and 53.67% common equity. I demonstrated that this capital
232		structure has a higher common equity ratio than the Company's parent company and
233		other electric utility companies. As a result, in my primary rate of return
234		recommendation I have recommended a capital structure with a common equity ratio
235		of 50.00%. In my alternative rate of return recommendation, I have used the
236		Company's proposed capital structure, but with a lower ROE of 8.75% to reflect the
237		higher common equity ratio and lower financial risk of RMP's proposed capital
238		structure.
239	Q.	IN ITS REBUTTAL TESTIMONY, THE COMPANY CRITICIZES YOUR
240		PROPOSED CAPITAL STRUCTURE. PLEASE RESPOND.
241	A.	In their rebuttal testimonies, Ms. Kobliha and Ms. Bulkley make several observations on
242		my assessment of a proposed capital structure for RMP. They claim that: (1) it is
243		appropriate to compare the common equity ratios of the operating electric utilities and
244		not the holding companies; (2) I should not include short-term debt in assessing common
245		equity ratios; and (3) there is no double leverage in the Company's capitalization relative
246		to its parent, Berkshire Hathaway Energy (BHE).
247	Q.	PLEASE ADDRESS THESE THREE ISSUES.

A. On the first issue, contrary to RMP's assertions, the appropriate comparison when itcomes to common equity ratios is between the common equity ratio as proposed by

20-035-04

250 the Company and the average common equity ratios for the holding companies in the 251 proxy groups. The reason is that both Ms. Bulkley and myself use the holding 252 companies to estimate a cost of equity capital for the Company. That is because the 253 holding companies have common stock outstanding, stock that is traded in the market, 254 which enables us to apply DCF and CAPM equity cost rate modeling approaches. 255 Without these holding company stock prices and dividends paid, we could not employ 256 the DCF and CAPM models. Therefore, it is the holding companies' common equity 257 ratios that are appropriate for comparison purposes, since their common equity ratio 258 is what reflects their financial risk. The common equity ratios of the operating utilities 259 are higher and therefore they are subject to less financial risk.

260 Second, it is appropriate to include short-term debt for the holding companies 261 when making assessments regarding common equity ratios. I have not recommended 262 the inclusion of short-term debt in the Company's capital structure. However, when 263 assessing the financial leverage and risk associated with debt financing, it is appropriate 264 to include short-term debt. And while Ms. Bulkley is correct that short-term debt tends 265 to vary over time for utilities, that is irrelevant when it comes to evaluating financial risk 266 when using holding company financial data. In assessing financial risk, short-term debt 267 is included because, just like long-term debt, short-term has a higher claim on the assets 268 and earnings of the company and requires timely payment of interest and repayment of 269 principal. This is consistent with the approach used by S&P and Moody's in evaluating 270 financial integrity and credit worthiness.⁹

⁹ For example, see Moody's June 27, 2019 Credit Opinion on PacifiCorp provided as part of Ms. Kobliha's direct testimony as Confidential Workpaper NLK 1, page 1, where Moody's uses "Total Debt".

271 Third, Ms. Kobliha claims there is no double leverage in assessing the 272 Company's proposed capitalization relative to that of its parent, BHE. However, she 273 does not directly address the issue. The point that I have made is that BHE is taking 274 advantage of double leverage in its management of RMP because regulators, such as 275 the Utah Commission, allow the Company to double leverage if regulators set rates on 276 RMP's capital structure and not based on BHE's consolidated capital structure. As I 277 demonstrated in my direct testimony, BHE's consolidated capital structure has more 278 leverage than RMP's. This is evidence that at least some of the equity in RMP has 279 been financed by debt from BHE. The Commission should consider this fact in setting 280 the capital structure and/or the ROE for RMP. 281

Q. ON A RELATED ISSUE, HOW DOES RMP'S PROPOSED COMMON EQUITY RATIO COMPARE TO THE COMMON EQUITY RATIOS APPROVED FOR ELECTRIC UTILITIES IN THE US?

A. While the Company's witnesses have discussed authorized ROEs for electric utilities, they have not made comparisons between their proposed common equity ratio and those adopted for electric utilities. According to S&P Global Market Intelligence – RRA, the average authorized common equity ratio for electric utilities in 2019-20 in the U.S. was 51.15%.¹⁰ As such, RMP's proposed capitalization includes a higher common equity ratio than those approved by other state utility commissions.

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¹⁰ S&P Global Market Intelligence, RRA *Regulatory Focus*, 2020. The 51.14% figure excludes the approved common equity ratios for utilities in states which include cost-free capital items such as investment tax credits in the approved capitalizations.

292		IV. The Riskiness of RMP
293		
294	Q.	WHAT IS THE COMPANY'S TESTIMONY REGARDING THE RELATIVE
295		RISK OF RMP?
296	А.	Ms. Bulkley indicated in her direct testimony that she considered several other risk
297		factors in arriving at her 10.20% ROE recommendation. She claims that (1) RMP's
298		higher than average capital expenditures increase its risk relative to the proxy utility
299		companies; (2) RMP's regulatory risk is high due to operating in Utah; and (3) RMP's
300		generation ownership and fuel sources makes it riskier than other utilities.
301	Q.	DO YOU AGREE WITH MS. BULKLEY THAT RMP IS RISKIER THAN
302		OTHER ELECTRIC UTILITIES?
303	A.	No. Ms. Bulkley's conclusion that RMP's capital expenditures and regulatory risk
304		make RMP riskier than other electric utilities is erroneous. These two factors are risk
305		factors that are already considered in the credit-rating process used by major rating
306		agencies. RMP's issuer credit rating is A according to S&P and A3 according to
307		Moody's. RMP's S&P rating (A) is two notches above the average S&P rating for the
308		Electric and Bulkley Proxy Groups (BBB+). RMP's Moody's rating of A3 is one
309		notch above the average Moody's rating for the Electric and Bulkley Proxy Groups
310		(Baa1). As such, RMP is less risky than the utilities in the Electric and Bulkley Proxy
311		Groups.
312		In addition, in terms of Utah regulatory risk, Ms. Bulkley claims that Utah
313		ROEs are below those of other states. This is erroneous. For example, consider that
314		the Commission approved a ROE of 9.50% for the gas distribution operations of

315 Dominion Energy Utah in February of this year. This compares to a national average
 316 gas distribution utility ROE of 9.40% in 2020.¹¹

317 Q. DOES MS. BULKLEY ADDRESS UTAH'S RESOURCE PREAPPROVAL

318 STATUTES IN MAKING HER CLAIM THAT RMP IS MORE RISKY THAN

- 319 THE COMPANIES IN HER PROXY GROUP BECAUSE OF RMP'S RECENT
- 320 AND PLANNED LARGE CAPITAL EXPENDITURES?
- A. No. To recap, in her direct testimony Ms. Bulkley argues that RMP is riskier than her proxy group of companies because of RMP's recent and planned large capital expenditures and the fact that RMP does not have a capital tracking mechanism, such as 52% of her proxy group utilities, to recover large capital costs.¹² Ms. Bulkley repeats this claim in her rebuttal testimony.¹³ However, Utah has two statutory mechanisms to receive Commission preapproval of large capital expenditures.

327 Q. WHAT ARE UTAH'S STATUTORY MECHANISMS THAT LESSEN THE 328 RISK OF LARGE CAPITAL EXPENDITURES?

A. Utah's Significant Energy Resource Approval statute, Utah Code §§ 54-17-302 through 54-17-304 and Voluntary Request for Resource Decision Review statute, Utah Code §§ 54-17-401 through 54-17-404, provide mechanisms for RMP to obtain preapproval of projected costs of significant capital expenditures. Once preapproval is obtained from the Commission, which will occur prior to the expenditure of any substantial funds, RMP will be guaranteed recovery up to that amount preapproved in

¹¹ S&P Global Market Intelligence, RRA *Regulatory Focus*, 2020.

¹² Direct Testimony of Ann E. Bulkley, p. 60-63.

¹³ Rebuttal Testimony of Ann E. Bulkley, p. 76.

335	the next rate case. RMP has recently utilized these statutes in recent cases involving
336	large capital expenditures for wind resources and transmission lines to insulate itself
337	from risk related to the cost recovery for these projects. ¹⁴

338 Q. AS A REGULATED UTILITY, DO THESE STATUTES SIGNIFICANTLY

339 MITGATE THE RISKS ASSOCIATED WITH RMP'S LARGE CAPITAL

340 **INVESTMENTS?**

A. Yes, that is one the results of these statutes.

342 Q. ARE THERE ANY OTHER STATUTES THAT REDUCE RMP'S RISK OF

343 CAPITAL EXPENDITURE RECOVERY IN RATES?

- A. Yes, Utah Code §§ 54-7-13.4, Alternative Cost Recovery for Major Plant Addition,
- allows RMP to begin recovery of costs in rates for major capital expenditures in
 between rate cases. This reduces regulatory lag that would otherwise occur due to
- 347 waiting until the next rate case and would increase the utility's cash flow.

348 Q. DOES MS. BULKLEY ACKNOWLEDGE THE RESOURCE PREAPPROVAL

- 349 AND MAJOR PLANT ADDITION STATUTES IN HER ANALYSIS OF
- 350 RMP'S BUSINESS RISKS IN UTAH?
- 351 A. No she does not.

¹⁴ See Voluntary Request of Rocky Mountain Power for Approval of Resource Decision to Repower Wind Facilities, Docket 17-035-39; Application of Rocky Mountain Power for Approval of a Significant Energy Resource Decision and Voluntary Request for Approval of Resource Decision, Docket 17-035-40.

Q. CONSIDERING THIS ISSUE OF REDUCED UTAH-SPECIFIC RISKS, IS THE COMPANY'S POSITION IN THIS CASE CONSISTENT WITH ITS POSITION IN ITS CURRENT RATE CASE IN WYOMING?

356 A. No. RMP lists some of the same risk factors in its current rate case in Wyoming but 357 then provides additional Wyoming specific risks. In the Wyoming case, Ms. Bulkley 358 is the ROE witness and, as in this case, the Company in rebuttal has moderated its 359 ROE request to 9.80%. However, Ms. Bulkley in the Wyoming proceeding argues 360 that RMP deserves a higher ROE in Wyoming since the state has unique risk factors 361 associated with limited cost recovery mechanisms. In addition, RMP witness 362 Hoogeveen argues that Wyoming's treatment of coal-fired generation increases RMP's risk in that state.¹⁵ Because Utah does not have these Wyoming specific issues, 363 364 RMP's ROE in Utah should be lower than in Wyoming.

365 Q. MS. KOBLIHA STATES THAT RMP'S SUPERIOR CREDIT RATINGS ARE

366 IN JEOPARDY IF COMMISSIONS DO NOT SUPPORT RMP'S CASH FLOW

367 AND DEBT RATIOS BY AUTHORIZING A GENEROUS EQUITY RATIO 368 PERCENTAGE.¹⁶ DO YOU AGREE?

A. No. First, as noted above, RMP's S&P and Moody's issuer credit ratings of A and A3 are already significantly better than the average of the two proxy groups. Second, as shown on page 2 of my direct testimony Exhibit JRW-3.2, RMP has achieved its superior credit rating with an average common equity ratio of 51.79% over the past three years.

¹⁵ See Docket No. 20000-578-ER-20, Wyoming Public Service Commission, Direct testimony of Anne Bulkley, pp. 66-73; Rebuttal testimony of Anne Bulkley, pp. 5, 63; Rebuttal testimony of Gary Hoogeveen, pp. 3.

¹⁶ Kobliha Rebuttal testimony, pages 6 - 7.

373		Third, this is an erroneous conclusion because awarding a generous common equity ratio
374		only takes money from ratepayers and puts it in the pockets of Pacificorp's shareholders.
375		Furthermore, in the Washington rate case settlement referenced earlier, PacifiCorp
376		accepted a 49.1% equity ratio with a 9.50% ROE.
377	Q.	IN CONCLUSION, WHAT IS THE IMPLICATION OF RMP HAVING LESS
378		INVESTMENT RISK THAN OTHER ELECTRIC UTILITIES?
379	A.	The clear implication is that the companies in the Electric and Bulkley Proxy Groups are
380		riskier than RMP and therefore using these firms will produce a higher ROE than RMP
381		requires. As a result, the Commission should recognize the lower investment risk of
382		RMP in setting the ROE in this case.
383		
384		V. Equity Cost Rate Issues
385		1. DCF Approach
386		
387	Q.	INITIALLY, PLEASE DISCUSS MS. BULKLEY'S COMMENTS ON YOUR
388		PROXY GROUP.
389	А.	In her rebuttal testimony, Ms. Bulkley criticizes my proxy group because it includes
390		distribution companies. However, the proxy group is not an issue, since I also use her
391		proxy group. In addition, I use credit ratings as a measure of risk, and RMP is less
392		risky than either proxy group.
393	Q.	PLEASE HIGHLIGHT THE ISSUES YOU IDENTIFIED WITH MS
394		BULKLEY'S DCF ANALYSIS.

395 A. In my direct testimony, I identified a number of errors in Ms. Bulkley's DCF analysis. 396 As I highlighted in my testimony, Ms. Bulkley has seriously overstated her reported 397 DCF results in four ways: (1) she selectively eliminated low-end DCF results; (2) she 398 has exclusively used the overly optimistic and upwardly biased EPS growth rate 399 forecasts of Wall Street analysts and Value Line; (3) she has created her own new 400 version of the DCF model – the projected constant-growth DCF model - in which she 401 projects DCF inputs into the future; and (4) she has claimed that the DCF results 402 underestimate the market-determined cost of equity capital due to high utility stock 403 valuations and low dividend yields.

404 Q. HAS MS. BULKLEY ADDRESSED THESE ISSUES IN HER REBUTTAL 405 TESTIMONY?

406 A. No, not in any meaningful way.

407 (1) With respect to her asymmetric low-end DCF eliminations, I noted that
408 without the low-end eliminations, her DCF results go from an average of 8.93% down
409 to 8.59%. As I indicated in my initial testimony, by eliminating asymmetric low-end
410 results, she has committed a basic statistics error called errors-in-variables (EIV). She
411 has not addressed her statistical error in rebuttal.

412 (2) With respect to her exclusively using the overly optimistic and upwardly
413 biased EPS growth rate forecasts of Wall Street analysts and *Value Line*, Ms. Bulkley
414 claims: (1) the Global Analysts Settlement "reduced or eliminated" the upward bias;
415 and (2) cites the results of a study I cited by Hovakimian and Saenyasiri who report
416 that the bias declined in response to the Global Analysts Settlement. There are two
417 errors here. First, the Hovakimian and Saenyasiri study did not use or evaluate long-

418	term EPS growth rates, but instead used short-term EPS growth rate forecasts. In
419	addition, I addressed the "changes in regulation" issue in my initial testimony. I cited
420	a number of studies published since that time which highlight the upward bias in analysts'
421	EPS growth rate estimates. In addition, a McKinsey study entitled "Equity Analysts:
422	Still Too Bullish" evaluated the accuracy on analysts long-term EPS growth rate
423	forecasts. The authors conclude that after a decade of stricter regulation, analysts'
424	long-term earnings forecasts continue to be excessively optimistic. They made the
425	following observation: ¹⁷

426 Alas, a recently completed update of our work only reinforces this viewdespite a series of rules and regulations, dating to the last decade, that were 427 428 intended to improve the quality of the analysts' long-term earnings forecasts, 429 restore investor confidence in them, and prevent conflicts of interest. For 430 executives, many of whom go to great lengths to satisfy Wall Street's 431 expectations in their financial reporting and long-term strategic moves, this is 432 a cautionary tale worth remembering. This pattern confirms our earlier findings that analysts typically lag behind events in revising their forecasts to 433 434 reflect new economic conditions. When economic growth accelerates, the size 435 of the forecast error declines; when economic growth slows, it increases. So as economic growth cycles up and down, the actual earnings S&P 500 companies 436 report occasionally coincide with the analysts' forecasts, as they did, for 437 438 example, in 1988, from 1994 to 1997, and from 2003 to 2006. Moreover, 439 analysts have been persistently overoptimistic for the past 25 years, with 440 estimates ranging from 10 to 12 percent a year, compared with actual earnings growth of 6 percent. Over this time frame, actual earnings growth surpassed 441 442 forecasts in only two instances, both during the earnings recovery following a 443 recession. On average, analysts' forecasts have been almost 100 percent too 444 high. (emphasis added).

445 This is the same observation made in a *Bloomberg Businessweek* article.¹⁸ The

446 author concluded:

¹⁷ Marc H. Goedhart, Rishi Raj, and Abhishek Saxena, "Equity Analysts, Still Too Bullish," *McKinsey on Finance*, pp. 14-17, (Spring 2010).

¹⁸ Roben Farzad, "For Analysts, Things Are Always Looking Up," *BloombergBusinessweek* (June 10, 2010).

447 448

449

The bottom line: Despite reforms intended to improve Wall Street research, stock analysts seem to be promoting an overly rosy view of profit prospects.

450 (3) As noted above, given her low DCF results, she has created her own new
451 version of the DCF model – the projected constant-growth DCF model. In this case
452 she projects DCF inputs into the future and then computes a DCF five years in the
453 future. Ms. Bulkley has no defense for this approach, since she is using a ROE model
454 she created which has no foundation in the field of finance.

(4) As a last ditch effort to defend her results, she has claimed that the DCF
results underestimate the market-determined cost of equity capital due to high utility
stock valuations and low dividend yields. She does this at several places in her
testimony. She has made similar claims in her testimonies in recent years, to
"discredit" her own low DCF results, even as utility stock prices have continued to
increase. The bottom line is that she is claiming that she knows more about the
valuation of utility stocks than investors and the markets.

462 Q. ON PAGES 95-96 OF HER REBUTTAL TESTIMONY, MS. BULKLEY 463 IMPLIES THAT YOU USE HISTORIC GROWTH RATES IN YOUR DCF 464 ANALYSIS. IS THIS CORRECT?

A. No. I did review historical growth rates, since most data available to investors is
historical. However, as discussed in my testimony, in arriving at my DCF growth
rates, I used the overall range of the projected growth rate indicators, and gave primary
weight to the projected EPS growth rate of Wall Street analysts. In doing so, I
recognized that: (1) analysts' growth rate forecasts have a significant impact on
investors' expectations; and (2) the scientific evidence on analysts' long-term EPS

growth rate forecasts indicates that these forecasts are overly optimistic and upwardlybiased, therefore one should not solely rely on these forecasts.

473 Q. ON PAGES 96-97 OF HER REBUTTAL TESTIMONY MS. BULKLEY 474 CRITICIZES YOUR SUSTAINABLE GROWTH RATE CALCULATION.

475 **PLEASE RESPOND.**

476 I have used internal sustainable growth as one of my thirteen measures of growth for both A. 477 the Electric and Bulkley Proxy Groups. Sustainable growth includes: (1) internal growth 478 which is measured as the retention rate ("B") times the expected ROE ("R") and is 479 referred to as "B * R"; and (2) external growth which is measured as the growth in the 480 number of shares ("S") times the portion of the market-to-book ratio that exceeds 1.0 ("V") and is referred to as "S * V."¹⁹ I have relied upon internal growth because, of the 481 482 two measures, (1) internal growth is the predominant component of sustainable growth 483 and (2) external growth is speculative in that the calculation includes projections of a 484 future market-to-book ratio as well as future issues of stock. Ms. Bulkley's incorrect 485 objection is that I only used the B * R form of sustainable growth.

486 Q. IS MS. BULKLEY CORRECT IN HER ASSERTION THAT YOU DID NOT 487 INCLUDE S * V GROWTH?

A. No. Whereas I calculate sustainable growth as B * R as one of my DCF growth rate
measures, I have also used *Value Line*'s projected book value per share growth rate. This
growth rate calculation includes *Value Line*'s explicit estimate of sustainable growth,
which presumably includes B*R and S*V.

¹⁹ The retention rate is the percent of earnings retained by a company and reinvested in the company's asset base. The market to book ratio is the market value of a company's equity (i.e., the stock price) dividend by the book value (the value on the balance sheet).

492

493 **2.** <u>CAPM Approach</u>

494

495 Q. PLEASE DISCUSS THE ISSUES WITH MS BULKLEY'S CAPM ANALYSIS.

496 In my initial testimony, I identified a number of issues with Ms. Bulkley's CAPM A. 497 analysis. These issues were: (1) her long-term projected (3.20%) 30-year Treasury 498 yields are well in excess of current market yields; (2) she has employed the Empirical 499 CAPM ("ECAPM") version of the CAPM, which makes inappropriate adjustments to 500 the risk-free rate and the market risk premium; and (3) most significantly, she has 501 computed a market risk premium of 12.49%. The 12.49% market risk premium is 502 much larger than: (1) indicated by historic stock and bond return data; and (2) found 503 in the published studies and surveys of the market risk premium. In addition, I 504 demonstrate that the 12.49% market risk premium is based on totally unrealistic 505 assumptions of future economic and earnings growth and stock returns. To compute 506 her market risk premium, Ms. Bulkley has applied the DCF to the S&P 500 and 507 employed analysts' three-to-five-year earnings per share ("EPS") growth-rate 508 projections as a growth rate to compute an expected market return and market risk 509 premium. As I demonstrated in my initial testimony, the EPS growth-rate projection 510 used for the S&P 500 and the resulting expected market return and market risk 511 premium include totally unrealistic assumptions regarding future economic and 512 earnings growth and stock returns.

- 513
- 514

515 Q. HOW DID MS. BULKLEY RESPOND IN HER REBUTTAL TESTIMONY?

- 516 A. She updated her CAPM analysis. She used current/near-term projected/long-term
- 517 projected risk-free rates of 1.34%/1.70%/3.00%, a market risk premium of 13.95%,
- 518 and betas from both Value Line and Bloomberg. Her updated CAPM results vary
- from 11.63% to 12.58%, and her ECAPM results are 30 to 50 basis points higher.

520 Q. WHAT ARE THE ERRORS IN MS. BULKLEY UPDATED CAPM?

521 A. The errors are the same as in her original CAPM and I addressed these issues in my

direct testimony. They include: (1) the use of the so-called ECAPM, (2) the projected
risk-free interest rate and, (3) the most significant error, is her market risk premium.
The market risk premium is the primary driver of her highly overstated
CAPM/ECAPM results. The calculation of Ms. Bulkley's market risk premium is
shown in Table 5.

- 527
- 528

Bulkley CAPM Market R	isk Premium
Dividend Yield	1.72%
+ Expected EPS Growth	<u>12.12%</u>
= Expected Market Return	13.95%
- Risk-Free Rate	<u>1.34%</u>
= Market Risk Premium	12.60%

Table 5

529

The primary issue with Ms. Bulkley's approach is using the overly optimistic,
upwardly biased projected EPS growth rates of Wall Street analysts as the DCF
growth component for the S&P 500. In my direct testimony, I described in detail
why her risk premium approach is not appropriate for the following reasons:
Ms. Bulkley's market risk premium of 12.60% is well above market-risk
premiums: (1) found in studies of the market-risk premium by leading

academic scholars; (2) produced by analyses of historic stock and bond returns;and (3) found in surveys of financial professionals.

- 2. 538 Ms. Bulkley's CAPM market-risk premium methodology is based entirely on 539 the concept that analysts' projections of companies' three-to-five EPS growth 540 rates reflect investors' expected long-term EPS growth for those companies. 541 Numerous studies have shown that the long-term EPS growth rate forecasts of 542 Wall Street securities analysts are overly optimistic and upwardly biased.²⁰ 543 Moreover, a 2011 study showed that analysts' forecasts of EPS growth over 544 the next three-to-five years earnings are no more accurate than their forecasts of the next single year's EPS growth.²¹ The overly-optimistic inaccuracy of 545 546 analysts' growth rate forecasts leads to an upward bias in equity cost estimates that has been estimated at about 300 basis points.²² 547
- 5483.Changes in regulations and reporting requirements over the past two decades549have not impacted the fact that analysts' long-term earnings forecasts continue550to be excessively optimistic.
- 551 4. Over the long-term, there is a direct link between EPS and GDP growth rates,
 552 and historically they have grown in the 6%-7% range;

²⁰ Such studies include: R.D. Harris, "The Accuracy, Bias, and Efficiency of Analysts' Long Run Earnings Growth Forecasts," *Journal of Business Finance & Accounting*, pp. 725-55 (June/July 1999); P. DeChow, A. Hutton, and R. Sloan, "The Relation Between Analysts' Forecasts of Long-Term Earnings Growth and Stock Price Performance Following Equity Offerings," *Contemporary Accounting Research* (2000); K. Chan, L., Karceski, J., & Lakonishok, J., "The Level and Persistence of Growth Rates," *Journal of Finance*, pp. 643–684, (2003); M. Lacina, B. Lee, and Z. Xu, *Advances in Business and Management Forecasting* (*Vol. 8*), Kenneth D. Lawrence, Ronald K. Klimberg (ed.), Emerald Group Publishing Limited, pp.77-101.

²¹ M. Lacina, B. Lee, & Z. Xu, *Advances in Business and Management Forecasting*, Vol. 8, Kenneth D. Lawrence, Ronald K. Klimberg (ed.), Emerald Group Publishing Limited, pp.77-101.

²² Peter D. Easton & Gregory A. Sommers, "Effect of Analysts' Optimism on Estimates of the Expected Rate of Return Implied by Earnings Forecasts," 45, *Journal of Accounting Research*, pp. 983–1015 (2007).

5535.The trends and projections indicate slower GDP growth in the future, with the554average projected GDP growth rates by such agencies as Social Security555Administration, Energy Information Administration, and the Congressional556Budget Office in the 4.0% to 4.4% range. A major reason for the projected557slower GDP growth in the future is the slowing growth of the population (and558therefore workforce) in the U.S.

- 5596.On a year-to-year basis, S&P 500 EPS growth rates are much more volatile560than the GDP growth rates because the EPS growth for the S&P 500 companies561can be influenced by factors like labor costs, interest rates, commodity prices,562or the recovery of different sectors. These short-term factors can make it563appear that there is a disconnect between the economy and corporate profits.564But over time S&P 500 EPS growth rates tie to GDP growth rates.
- 5657.Corporate profits are constrained by GDP. Milton Friedman, the noted Nobel566Laureate economist, warned investors and others not to expect corporate profit567growth to sustainably exceed GDP growth, stating, "Beware of predictions that568earnings can grow faster than the economy for long periods. When earnings569are exceptionally high, they don't just keep booming."²³ Friedman also noted570in the Fortune interview that profits must move back down to their traditional571share of GDP. Likewise, Warren Buffett noted the following:²⁴
- 572You know, someone once told me that New York has more lawyers573than people. I think that's the same fellow who thinks profits will574become larger than GDP. When you begin to expect the growth of

²³ Shaun Tully, "Corporate Profits Are Soaring. Here's Why It Can't Last," Fortune, (Dec. 7, 2017), http://fortune.com/2017/12/07/corporate-earnings-profit-boom-end/.

²⁴ Carol Loomis, "Mr. Buffet on the Stock Market," *Fortune*, (Nov. 22, 1999), https://money.cnn.com/magazines/fortune/fortune_archive/1999/11/22/269071/.

599

575 576 577 578		a component factor to forever outpace that of the aggregate, you get into certain mathematical problems. In my opinion, you have to be wildly optimistic to believe that corporate profits as a percent of GDP can, for any sustained period, hold much above 6%.
579		And Mr. Buffett goes on to explain what corporate profits will remain
580		at about 6% of GDP:
581 582 583 584 585 586		One thing keeping the percentage down will be competition, which is alive and well. In addition, there's a public-policy point: If corporate investors, in aggregate, are going to eat an ever-growing portion of the American economic pie, some other group will have to settle for a smaller portion. That would justifiably raise political problems – and in my view a major reslicing of the pie just isn't going to happen.
587		In summary, Ms. Bulkley's long-term S&P 500 EPS growth rate of 12.12%,
588		which produce her market risk premium of 12.60%, is grossly overstated and is
589		untethered from economic reality. In the end, the big question remains as to whether
590		corporate profits can grow faster than GDP. Jeremy Siegel, the renowned finance
591		professor at the Wharton School of the University of Pennsylvania, believes that going
592		forward, earnings per share can grow about half a point faster than nominal GDP, or
593		about 5.0%, due to the big gains in the technology sector. But he also believes that
594		sustained EPS growth matching analysts' near-term projections is absurd: "The idea
595		of 8% or 10% or 12% growth is ridiculous. It will not happen." ²⁵
596	Q.	WHAT IS THE BOTTOM LINE ON THIS GROWTH RATE AND CAPM
597		ISSUE?
598	A.	The magnitude of Ms. Bulkley's CAPM results is driven by the 12.12% projected EPS

600 nominal projected GDP growth is in the 4.0% to 4.4% range, she is projecting that the

growth rate used to derive her 12.60% market risk premium. Given that long-term

²⁵ Shaun Tully, "Corporate Profits Are Soaring. Here's Why It Can't Last," *Fortune*, (Dec. 7, 2017), http://fortune.com/2017/12/07/corporate-earnings-profit-boom-end/.

601 EPS for the S&P 500 will grow at three times GDP growth. This is totally unrealistic. 602 No trained economist would agree that, over the long-term, companies can grow their 603 earnings at three times GDP growth. In reviewing Ms. Bulkley's dubious claim, I 604 suggest that the Commission also review the comments of Milton Friedman, Warren 605 Buffett, and Jeremy Siegel above regarding the long-term tie between EPS and GDP 606 growth. Ms. Bulkley's CAPM approach and results are clearly at odds with their 607 statements.

608 Q. IN HER REBUTTAL TESTIMONY, MS. BULKLEY TAKES ISSUE WITH A 609 COUPLE OF ELEMENTS OF YOUR CAPM MARKET RISK PREMIUM OF 610 6.0%. PLEASE RESPOND.

611 Between pages 109-115 Ms. Bulkley takes issue with several elements of my market A. 612 risk premium. As I noted in my direct testimony, there are three commonly-used 613 procedures for estimating a market risk premium - historic returns, surveys, and 614 expected return models. I have used a market risk premium of 6.00%, which: (1) 615 factors in all three approaches – historic returns, surveys, and expected return models 616 - to estimate a market premium; and (2) employs the results of many studies of the 617 market risk premium. As I note, the 6.00% figure reflects the market risk premiums: 618 (1) determined in recent academic studies by leading finance scholars; (2) employed 619 by leading investment banks and management consulting firms; and (3) found in 620 surveys of companies, financial forecasters, financial analysts, and corporate CFOs.

To assess the credibility of my market risk premium, I suggest that the Commission do a Google internet search of 'market risk premium' and 'equity risk premium.' If you do, you will find many of the studies and sources that I use in

624		develo	oping my market risk premium. Those include Duff & Phelps, Damodaran,
625		Fernar	ndez, KPMG, among others. In addition, while I did review a number of other
626		source	es, surveys, and studies, I gave primary weight to these sources in arriving at my
627		6.0% :	market risk premium. I guarantee if the Commission does an internet search, it
628		will no	ot find anyone recommending a market risk premium as high as 12.60%.
629			
630		3.	Expected Earnings Approach
631			
632	Q.	BETV	WEEN PAGES 74-75 AND 123-124 OF HER REBUTTAL TESTIMONY,
633		MS. 1	BULKLEY ATTEMPTS TO DEFEND HER EXPECTED EARNINGS
634		APPR	ROACH. HOW DO YOU RESPOND?
635	A.	As I n	oted in my direct testimony, the Expected Earnings approach does not measure the
636		cost of	f equity capital. I noted several issues with this approach in my direct testimony.
637		These	include:
638		1.	The expected earnings approach is an accounting-based methodology that does
639			not measure investor return requirements and therefore it does not measure the
640			market cost of equity capital;
641		2.	The changes in ROE ratios do not track capital market conditions and therefore
642			are insensitive to changes in interest rates and the returns investor's require;
643		3.	The expected earnings approach is circular in that the ROEs for the proxy
644			companies are not determined by competitive market forces, but instead are
645			largely the result of federal and state rate regulation; and

646		4. The ROEs for the proxy utilities reflect earnings on business activities that are
647		not representative of RMP's rate-regulated utility activities.
648	Q.	HAVE ANY REGULATORY COMMISSIONS REJECTED THE EXPECTED
649		EARNINGS APPROACH TO ESTIMATING THE COST OF EQUITY
650		CAPITAL?
651	А.	Yes. For essentially the reasons outlined above, in Opinion No. 569 the Federal
652		Energy Regulatory Commission recently rejected the use of the expected earnings
653		model because it does not measure the cost of equity capital. ²⁶
654	Q.	DO YOU HAVE ANY FINAL THOUGHTS ON USING THE EXPECTED
655		EARNINGS APPROACH TO ESTIMATE THE COST OF EQUITY
656		CAPITAL?
657	А.	Yes. To defend the use of the Expected Earnings approach, at pages 74-75 Ms.
658		Bulkley quotes a book by Roger Morin, a well-known utility company rate of return
659		witness. I recently testified in a case in Washington involving Puget Sound Energy, a
660		case where Dr. Morin testified. And the real irony here is that while Ms. Bulkley uses
661		Dr. Morin's book as justification for using this approach, Dr. Morin himself does not
662		use the expected earnings approach in estimating the cost of equity capital for a public
663		utility. ²⁷
664	Q.	DOES THIS CONCLUDE YOUR SURREBUTTAL TESTIMONY?
665	А.	Yes.

²⁶ Federal Energy Regulatory Commission, *Opinion No. 569*, P. 208-212.

²⁷ See PSE-Exh-RAM-01T-6-20-19, Washington Utilities and Transportation Commission vs. Puget Sound Energy, Docket Nos UE-190529 and UG-190530, June 2019.