

BEFORE THE PUBLIC SERVICE COMMISSION OF UTAH

| | | |
|---|---|--------------------------|
| In the Matter of Carbon/Emery Telcom Inc. |) | Docket No. 15-2302-01 |
| Application for an Increase in |) | |
| Utah Universal Service Fund Support |) | Surrebuttal Testimony |
| |) | of David Brevitz, C.F.A. |
| |) | For the Office of |
| |) | Consumer Services |
| |) | |

NON-CONFIDENTIAL - REDACTED VERSION

September 18, 2015

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

2 A. My name is David Brevitz. My business address is Brevitz Consulting Services,
3 3623 SW Woodvalley Terrace, Topeka, KS, 66614.

4 Q. HAVE YOU PREVIOUSLY FILED DIRECT TESTIMONY AND REBUTTAL
5 TESTIMONY IN THIS MATTER ON BEHALF OF THE OFFICE OF
6 CONSUMER SERVICES ("OCS")?

7 A. Yes.

8 Q. WHAT IS THE PURPOSE OF THIS SURREBUTTAL TESTIMONY?

9 A. The purpose of this rebuttal is to respond to various positions taken in the
10 rebuttal testimony of Douglas Meredith on behalf of Carbon/Emery Telcom
11 regarding rate of return, and to relate those positions to my direct testimony on
12 those issues. I have read Mr. Meredith's testimony and exhibits thoroughly and
13 while it is somewhat voluminous, the Commission should give it little weight for
14 the reasons described in this surrebuttal testimony. The material presented by
15 Mr. Meredith regarding the "small company premium" is the product of "data
16 mining" permitted by advances in databases and computer technologies, which
17 mistakes correlation for causation, and overlooks the nature of and problems
18 with the data that is being mined. The "small company premium" hinges on
19 existence of market inefficiencies and is an alleged measure of one market
20 inefficiency. Since this conflicts with the established and widely held view that

21 financial markets are efficient, the proof that the Commission should require to
22 demonstrate the existence of the “small company premium” is that there are
23 actual investors identifying this market inefficiency and profiting from it. Mr.
24 Meredith provides no such evidence. I urge the Commission to adopt the rate of
25 return recommendations contained in my Direct Testimony.

26 **RATE OF RETURN ISSUES**

27 **Q. PLEASE IDENTIFY THE RATE OF RETURN ISSUES, AND DESCRIBE THE**
28 **OVERALL BALANCE OF MR. MEREDITH’S TESTIMONY ON THOSE**
29 **ISSUES IN THIS CASE.**

30 **A.** In my Direct Testimony, I addressed three important elements in the
31 computation of rate of return under the Commission’s rules in this matter – the
32 appropriate capital structure to be used, the appropriate state rate of return on
33 equity to be used, and the appropriate interstate overall rate of return to be used.
34 Mr. Meredith devotes the great majority of his testimony and exhibits to only
35 one of those elements – which certainly is important on its own – the state rate of
36 return on equity. Of the twelve pages that comprise Mr. Meredith’s rate of
37 return testimony, only one question and answer is provided for the appropriate
38 capital structure and the appropriate interstate rate of return. I believe Mr.
39 Meredith’s testimony is scant on these two items because there really is not
40 much to argue about with the position OCS has taken on those two issues. The

41 OCS testimony acknowledges where the Commission has clearly spoken on each
42 one, and is in harmony with Commission requirements.

43 **Q. IS THE OFFICE TAKING POSITIONS “UNREASONABLY DESIGNED TO**
44 **SIMPLY PRODUCE A LOW RATE OF RETURN FOR CARBON/EMERY” AS**
45 **ALLEGED BY MR. MEREDITH AT LINE 117 OF HIS REBUTTAL**
46 **TESTIMONY?**

47 A. Absolutely not. Each of the recommendations in my Direct and Rebuttal
48 testimonies on rate of return has firm foundation in the Commission’s rules,
49 regulatory policy, financial management and modern portfolio theory. If all the
50 Office sought was the lowest possible rate of return as suggested by Mr.
51 Meredith, there are additional recommendations I could have made with solid
52 foundation to produce a lower rate of return than was recommended in my
53 Direct Testimony. If that was my goal – which it is not – I had the basis and
54 foundation to recommend a hypothetical capital structure of 70% debt and 30%
55 equity, as noted in my testimony at lines 168 – 169. Instead, I recommended a
56 50/50 hypothetical capital structure, and I reiterate that recommendation here.
57 Also, if that was my goal – which it is not – I would have investigated
58 Carbon/Emery’s current cost of debt rather than accepting a cost of debt for debt
59 no longer on Carbon/Emery’s books as a reasonable proxy. In the current
60 interest rate environment perhaps a lower cost of debt could be justified.

61 Instead, I accepted Carbon/Emery's proffered cost of debt in this case, and I
62 reiterate that recommendation here. Mr. Meredith's criticism is unwarranted
63 and unfounded, as there is a proper and rational foundation for each of my
64 recommendations on rate of return.

65 Furthermore, Mr. Meredith's testimony quite clearly suffers from the very
66 weakness that he accuses (without support) my testimony of having. Mr.
67 Meredith appears to have taken many opportunities - which are not supported
68 by financial or regulatory practice or modern portfolio theory - to create additive
69 factors to increase his recommended return on equity. Here I am referring to Mr.
70 Meredith's rejection of the DCF methodology and various additions he seeks to
71 make to return on equity for liquidity, small size, and levered beta.

72 **Q. MR. MEREDITH'S TESTIMONY CONTAINS SPECULATION AND**
73 **CONJECTURE CLAIMING TO KNOW WHY THE FCC HAS NOT YET**
74 **ACTED ON THE FCC STAFF REPORT ON RATE OF RETURN. SHOULD**
75 **THE COMMISSION GIVE THIS SPECULATION AND CONJECTURE ANY**
76 **WEIGHT?**

77 **A.** No. Mr. Meredith makes the following statements in an attempt to rebut my use
78 reference to the rate of return recommendation contained in the FCC Staff
79 Report:

- 80 • Line 182, “the rebuttals of the [FCC] staff report provided by NTCA and the
81 Rural Broadband Alliance leveled a broadside against the staff findings to the
82 extent that the FCC has let the issue remain dormant for two years and no
83 action has been taken.”
- 84 • Line 193, “from the FCC’s docket we have one staff report that was
85 thoroughly rebutted.”
- 86 • Line 196, “in light of the evidence, the FCC has let the issue remain idle”
- 87 • Line 211, “the FCC as an expert agency in regulating telecommunications
88 carriers has examined the issues, pro and con, and has deferred taking
89 actions”.

90 The Commission should not accept Mr. Meredith’s speculation and conjecture
91 regarding what is on the minds of the FCC commissioners regarding this report,
92 or why the FCC has not yet acted on the Staff Report. Mr. Meredith has not
93 provided any basis to support that he knows why the FCC is doing what it is
94 doing regarding the Staff Report. As this Commission no doubt can well
95 appreciate given its own responsibility to manage its own docket schedule, the
96 FCC sets its own schedule of when it takes matters up and when it doesn’t. It is
97 my experience that commissions do not allow parties to make any conclusions
98 on facts or policy from circumstances and timing of when a commission does or
99 doesn’t take a matter up for consideration. The Commission should give no
100 weight to Mr. Meredith’s speculation and conjecture that because time has

101 elapsed since the FCC Staff Report was filed, and rural local exchange company
102 groups filed comments opposing the conclusions contained in the Report, that in
103 fact the FCC has rejected the Report and its conclusions. In fact, as described
104 below the American Cable Association filed a Request for Reconsideration on
105 use of the FCC staff return in the cost modeling to determine Connect America
106 Fund Phase II support levels, stating that the FCC staff return was “too high”.
107 The FCC denied this reconsideration request and found that the FCC staff return
108 was in fact reasonable.¹ Mr. Meredith’s speculation and conjecture would be
109 equally applicable to infer that because the FCC has not yet acted, the FCC
110 agrees with those commenters that the FCC Staff Report provides a rate of return
111 that is too high.

112 The Commission should also note that one of the “rebuttals” to the FCC Staff
113 Report that Mr. Meredith states “levels a broadside” against that Report is the
114 Exhibit 4 authored by Mr. Vincent Wiemer who as explained below the Kansas
115 Corporation Commission found not to be a credible witness on rate of return
116 issues. This should cause the Commission to carefully scrutinize the merit of Mr.
117 Meredith’s Exhibit 4.

¹ Memorandum Opinion and Order; In the Matter of Connect America Fund and High Cost Universal Service Support; WC Docket Nos. 10-90 and 05-337; FCC 14-180; Released November 12, 2014. This Order is attached as Exhibit OCS 2S-1.

118 Q. AT LINE 180 MR. MEREDITH STATES "WHAT SHOULD INFORM THE
119 COMMISSION IN THIS PROCEEDING IS THE FACT THAT THE FCC DID
120 NOT ACCEPT THE CONCLUSIONS OF THE STAFF REPORT" (EMPHASIS
121 IN ORIGINAL). IS THIS ACCURATE?

122 A. No. While the FCC has not yet acted on the FCC staff Report on Rate of Return
123 for reasons known only to the FCC itself, the FCC has directly employed the FCC
124 staff recommended rate of return to determine support amounts for Phase II of
125 the Connect America Fund or "CAF II" funding. Specifically in the cost model
126 used to determine CAF II support amounts, the FCC staff used an 8.5% rate of
127 return as a model input, based on the mid-point of the rate of return range
128 contained in the FCC Staff Report on Rate of Return: 7.84% to 9.20%. The FCC
129 addressed the application for review of this model input by the American Cable
130 Association and specifically upheld the 8.5% rate of return from the FCC Staff
131 report stating: "we are not persuaded by ACA's argument that the cost of
132 money selected by the Bureau is unreasonably high"; and, "we find the Bureau's
133 selection of the input values for the cost of money and the subscription rate to be
134 reasonable, clearly reflecting the Bureau's consideration of the record before it,
135 its own analysis, and its predictive judgment of future conditions."² The
136 midpoint of the rate of return range established by the FCC Staff Report on Rate

² Id, at page 3.

137 of Return – 8.5% -- is in use today to determine CAF II support amounts from the
138 federal Universal Service Fund.

139 **RATE OF RETURN FOR INTERSTATE SERVICES**

140 **Q. WHAT ANALYSIS DOES MR. MEREDITH PROVIDE IN REBUTTAL TO**
141 **THE RECOMMENDATION IN YOUR DIRECT TESTIMONY THAT THE**
142 **COMMISSION USE THE 9.40% OVERALL RATE OF RETURN FROM THE**
143 **FCC FORM 492 REPORT?**

144 A. Mr. Meredith's provides no analysis whatsoever in his short answer at line 423
145 that comprises his full response on that important cost of capital input. Mr.
146 Meredith states "Mr. Brevitz is incorrect in proposing another rate [beside the
147 company-proposed 11.45%]. The development of the interstate rate has been
148 defined by Commission rule." This is only assertion, and Mr. Meredith's rebuttal
149 is silent and says nothing more on precisely how the 11.45% "has been defined
150 by Commission rule", and therefore does not explain how it could be
151 appropriate under the Commission's rules to use a rate of return figure from the
152 FCC Form 492 that pertains to only a small portion of the company's interstate
153 capital (rate base). Mr. Meredith's mere assertion contains no factual claim to
154 contradict the facts contained in my Direct and Rebuttal testimonies. I have
155 thoroughly explained how the 9.40% rate of return is the correct return to use in
156 this case in my Direct Testimony at lines 180 – 228 and in my Rebuttal testimony

157 at lines 17 - 102. The Commission should give no weight to Mr. Meredith's
158 unsupported assertion, and should find that 9.40% is the correct interstate rate of
159 return for use in this case under the Commission's rule.

160 **HYPOTHETICAL CAPITAL STRUCTURE AND "COMPARABLE COMPANIES"**

161 **Q. TURNING TO HYPOTHETICAL CAPITAL STRUCTURE, MR. MEREDITH**
162 **STATES BEGINNING AT LINE 399 THAT THE 35% DEBT/65% EQUITY**
163 **HYPOTHETICAL CAPITAL STRUCTURE IS "STANDARD PRACTICE IN**
164 **UTAH" (LINE 399), A "LONG-STANDING PRACTICE" (LINE 411) AND**
165 **GOES ON TO SAY "THE COMMISSION SHOULD CONTINUE TO APPLY**
166 **THE DIVISION'S SLIDING SCALE METHOD TO ADJUST FOR CAPITAL**
167 **STRUCTURE" (LINE 418). SHOULD THE COMMISSION ACCEPT THIS**
168 **RECOMMENDATION?**

169 **A.** No. The DPU apparently has used the 65/35 hypothetical capital structure in
170 previous cases that were settled. This history is not documented or available as
171 public information, so the actual extent of the use of this particular hypothetical
172 capital structure is not clear. However, as explained in my Rebuttal Testimony at
173 lines 104 - 123 the Commission explicitly rejected that approach as a proposed
174 rule on capital structure in favor of individual company determinations, and
175 appropriate fact-based ratemaking determinations. The complete Commission
176 letter on that subject was attached to my Rebuttal Testimony as OCS 2R-2. The

177 Commission should accept the recommendation of a 50/50 hypothetical capital
178 structure as contained in my Direct Testimony, based on analysis of comparable
179 companies.

180 **Q. MR. MEREDITH STATES THAT YOUR “COMPARISON OF LARGE**
181 **COMPANIES IS UNCONVINCING” (LINE 414) AS A BASIS FOR**
182 **COMMISSION DETERMINATION OF CAPITAL STRUCTURE AND**
183 **LEVERAGE RATIOS. DOES MR. MEREDITH OFFER ANY ALTERNATIVE**
184 **ANALYSIS OR COMPARABLE COMPANIES?**

185 A. No. Selection of “comparable companies” for rate of return analysis is necessary
186 and required. Mr. Meredith takes issue with the comparable companies I
187 identified (several of which Mr. Coleman also used) but then fails to identify any
188 replacement comparable companies for use in the analysis. Mr. Meredith
189 provides no comparable companies, but excludes the comparable companies that
190 I along with Mr. Coleman have identified, which begs the question of what data
191 Mr. Meredith would use to compute rate of return. The rate of return analyst
192 must rely on public information associated with publicly traded companies in
193 order to perform calculations necessary to determine the cost of capital elements
194 of capital structure and return on equity. There is no public market data for Utah
195 telecommunications companies since these companies are not publicly held with
196 stocks and bonds that trade in public financial markets. If there were publicly

197 traded telecommunications companies in Utah, those companies could be
198 considered for reasonableness for inclusion as “comparable companies” for rate
199 of return analysis purposes. Since there are no such companies, other
200 telecommunications companies which are publicly traded must be reviewed for
201 inclusion in the pool of “comparable companies” for this analysis – recognizing
202 that it is not possible to assemble a pool of companies that are direct analogs to
203 Carbon/Emery.³ With the adjustments identified in my Rebuttal Testimony at
204 lines 125 – 231 I believe the pool of “comparable companies” presented in my
205 testimony along with Mr. Coleman’s is the closest possible pool of “comparable
206 companies” that can be assembled for this analysis – I am aware of no other
207 companies that can or should be included. It is reasonable to rely on the
208 comparable companies I have selected for analysis, and it is unreasonable to
209 criticize the companies selected without offering any alternative comparable
210 companies or analysis. The Commission should rely upon the comparable
211 companies selected by Mr. Coleman and me, as adjusted per the Rebuttal
212 testimony cited above.

³ Mr. Meredith notes that “there are only 14 publicly traded ILEC peers in the nation and only two whose line counts are comparable to small company line counts” within “1,101 small company study areas in the nation”. Meredith Rebuttal, at line 300.

213

STATE RETURN ON EQUITY

214 Q. AT LINES 81 - 89 MR. MEREDITH DISCOUNTS THE EXTENSIVE CASE
215 CITATIONS IN YOUR DIRECT TESTIMONY TO RURAL LOCAL
216 EXCHANGE COMPANY RATE OF RETURN DETERMINATIONS BY THE
217 KANSAS CORPORATION COMMISSION (KCC) STATING "WE SIMPLY
218 DON'T HAVE ANY INFORMATION THAT THE RATE USED FOR RETURN
219 ON EQUITY WAS FULLY EXAMINED IN THE CITED KANSAS CASES". IS
220 THIS CRITICISM WARRANTED OR REASONABLE?

221 A. No. Every document in every case cited is publicly available on the KCC's
222 website. Each company filing, company witness testimony, staff witness
223 testimony, pleading, stipulation, and final Commission order is available on the
224 website for each case. Only limited information is deemed confidential and not
225 publicly available. In footnotes 5 and 6 of my direct testimony I included the link
226 to the KCC website and stated that "each of these testimonies is public record"
227 and "each of the Commission decisions is public record" on the KCC website.
228 The cost basis for individual rural local exchange company KUSF funding has
229 been reviewed by the KCC on a rotating basis since 1997. So at this point there is
230 an established base of precedent from cases that have gone to hearing, and now
231 in most cases stipulations are reached to generally accept the KCC staff-
232 recommended revenue requirement based on KCC staff-recommended ROR as
233 illustrated by the table at line 252 of my Direct Testimony. I cannot explain why

234 Mr. Meredith did not use the link provided in my Direct Testimony to review
235 these stipulations and orders himself to seek to verify that in fact rate of return
236 was fully examined by the parties and the Commission in each case. The only
237 appropriate criticism here is that Mr. Meredith failed to review these public
238 documents as he easily could have done before writing the testimony he wrote.

239 **Q. MR. MEREDITH'S REBUTTAL SPECIFICALLY ALLEGED "ESPECIALLY**
240 **ABSENT IS ANY REFERENCE OR CITATION FROM THE COMMISSION**
241 **ABOUT ITS EVALUATION AND DETERMINATION OF THE RATE OF**
242 **EQUITY [SIC] IN THE LAHARPE CASE." IS THIS CRITICISM**
243 **WARRANTED?**

244 **A.** No. As noted above, this decision by the KCC is publicly available on its website
245 and is attached as Exhibit OCS 2S-2. Review of this KCC Order makes clear that
246 the Commission did thoroughly review rate of return determination, and the
247 Commission's analysis of the rate of return position expressed by the Company's
248 consultant is scathing:

249 22. As part of the Commission's analysis of the extensive evidentiary
250 record, the Commission also assesses witness credibility. In this proceeding, the
251 Commission finds a substantial credibility gap between the two ROR witnesses.
252 Staff's witness, Mr. Gatewood, incorporated his own comprehensive updated
253 cost of equity analysis and consistently recommended this analysis as a
254 reasonable and appropriate approach.

255 23. LaHarpe's witness, Mr. Wiemer, incorporated another witness's
256 testimony in his pre-filed direct testimony to recommend a 12.5% ROE. Then, in
257 his supplemental rebuttal testimony, Mr. Wiemer, abandoned his initial

258 recommendation. Instead, he opted to use Mr. Gatewood's analysis and add
259 premia in an apparent effort to reach the highest possible ROE figure. There was
260 no mention of his previous recommendation, and the Commission was left to
261 ponder its application. Mr. Wiemer was certainly free to adjust his testimony as
262 the proceeding progressed; however, wholesale abandonment of one position
263 without reasonable explanation does have an effect on witness credibility.⁴

264 As noted in my Direct Testimony at line 252, the Commission adopted the 10%
265 return on equity recommended by KCC staff's "comprehensive updated cost of
266 equity analysis".⁵ The KCC clearly fully and carefully vetted the rate of return
267 analysis before it. This KCC Order was (and is) publicly available on the website
268 cited in my testimony for Mr. Meredith's review.

269 **Q. IS THE COMPANY WITNESS IN THE LAHARPE PROCEEDING ABOVE**
270 **THE SAME MR. WIEMER THAT IS INDICATED TO HAVE AUTHORED**
271 **THE DOCUMENT MR. MEREDITH ATTACHES AS HIS EXHIBIT 4?**

272 **A.** Yes. Vincent H. Wiemer, CPA, Alexicon Consulting is indicated on the cover
273 page of Meredith Exhibit 4 to be the author of those comments to the FCC on the
274 FCC Staff Rate of Return report. The KCC's finding of Mr. Wiemer's lack of

⁴ Order; State Corporation Commission of the State of Kansas; *In the Matter of Staff's Motion Requesting The Commission Order LaHarpe Telephone Company, Inc. to Submit to an Audit for Purposes of Determining its Cost-Based Kansas Universal Service Fund Support, Pursuant to K.S.A. 66-2008*; Docket No. 12-LHPT-875-AUD; June 26, 2013, at page 7 - 8. [Exhibit OCS 2S-1; or the "LaHarpe Order"]

⁵ The Direct Testimony of Adam Gatewood on behalf of KCC Staff in the LaHarpe Telephone Company and Gorham Telephone Company dockets are attached as Exhibits OCS 2S-3 and OCS 2S-4, respectively. These testimonies were filed two months apart, and Mr. Gatewood verified and then relied upon the Gorham calculations for the LaHarpe case, to responsibly reduce assessed costs to the two companies. .

275 credibility on rate of return issues should cause this Commission to carefully
276 scrutinize the merit of this Exhibit and Mr. Meredith's related testimony.

277 **Q. MR. MEREDITH STATES AT LINE 374 THAT YOU "FAIL TO INDICATE**
278 **THE METHOD USED TO CALCULATE THE PROPOSED STAFF RETURNS**
279 **ON EQUITY IN KANSAS". IS THIS CRITICISM WARRANTED OR**
280 **REASONABLE?**

281 A. No. At line 264 of my Direct Testimony I indicate that the DCF and CAPM
282 methods are used. Also as indicated above, all the filings, pleadings, testimonies,
283 stipulations and orders are publicly available on the KCC website. Review of
284 each publicly available KCC staff testimony on rate of return will show that each
285 case contains a "comprehensive updated cost of equity analysis"⁶ and that the
286 comprehensive analysis performed includes both Discounted Cash Flow (DCF)
287 and Capital Asset Pricing Model (CAPM) estimations which are used to create a
288 holistic return on equity recommendation to the Commission.

289 **Q. MR. MEREDITH APPEARS TO IGNORE USE OF THE DISCOUNTED CASH**
290 **FLOW METHOD OF DETERMINING RETURN ON EQUITY, AND**
291 **FOCUSES ONLY ON THE CAPITAL ASSET PRICING MODEL (CAPM). IS**

⁶ Exhibit OCS 2S-1; LaHarpe Order; at page 7.

292 **THIS A SIGNIFICANT SHORTCOMING IN HIS TESTIMONY AND**
293 **PRESENTATION?**

294 A. Yes. Mr. Meredith's testimony contains no discounted cash flow analysis for
295 determining return on equity, or reference to such analysis. Further, there is no
296 explanation of why Mr. Meredith has excluded the DCF methodology from his
297 testimony. My experience is that return on equity analysis before state utility
298 commissions will include estimations using both the DCF and CAPM
299 methodologies. This is done for purposes of producing a robust analysis, which
300 has an inherent cross-check between the methods to ensure reasonableness.
301 Notably, the return on equity estimations contained in the table in my Direct
302 Testimony at line 252 are derived from averages of the estimations from
303 application of both the DCF and CAPM methodologies. There is thus an
304 inherent cross check for reasonableness in my recommendation that is lacking in
305 Mr. Meredith's testimony.

306 **Q. AT LINE 114 MR. MEREDITH STATES "A SMALL COMPANY**
307 **ADJUSTMENT OR MORE SPECIFICALLY A SIZE ADJUSTMENT IS A**
308 **COMMON ADJUSTMENT THAT IS USED WHEN EXAMING SMALL**
309 **COMPANIES". HAS MR. MEREDITH PROVIDED ANY CITATIONS**
310 **WHERE THIS ADJUSTMENT WHICH HE CLAIMS IS "COMMON" HAS**
311 **BEEN ACCEPTED BY A STATE COMMISSION?**

312 A. No. Mr. Meredith provides no evidence of the acceptance of a small company
313 adjustment in any state USF funding proceeding, or in any other proceeding
314 where determination of rate of return is required. I am not aware of any case
315 where a state commission has accepted and used a "small company adjustment"
316 in its rate of return findings for state USF funding. Mr. Meredith's testimony
317 contains generalizations and assertions on the subject of the "small size"
318 adjustment, but no real specifics on how "size" is measured, or where are the
319 breakpoints between "small size" and larger size. Perhaps it may be presumed
320 that size is measured by the firm's level of capitalization. In any event, the
321 proffered small size adjustment is completely contrary to rate of return
322 estimation concepts in public utility proceedings before state utility
323 commissions. Furthermore, the bare existence of a "small company premium" is
324 disputed in the finance field, and there is strong evidence that such a premium
325 does not in fact exist.

326 **Q. HOW IS THE USE OR INCLUSION OF A "SMALL COMPANY PREMIUM"**
327 **CONTRARY TO STANDARD PRACTICES FOR DETERMINATIONS OF**
328 **REQUIRED RETURN ON EQUITY IN STATE COMMISSION**
329 **PROCEEDINGS?**

330 A. State utility commissions typically rely on two methods for estimating the
331 required return on equity: the Discounted Cash Flow (DCF) and Capital Asset

332 Pricing Model (CAPM) methods. DCF is universally used in state rate case
333 proceedings, and is the standard tool for rate of return on equity estimation and
334 valuation of assets of all types. CAPM is also often used in regulatory cases and
335 is a standard tool in modern portfolio theory for risk/return evaluation. The
336 DCF estimates the investor's required rate of return using dividend yield of
337 comparable companies and the growth rate in earnings and dividends expected
338 by investors. Dividend yield is based on public market data of dividends
339 divided by the market price of the common stock. The market price of the
340 common stock incorporates the market's assessment of the risks facing the
341 enterprise. The higher the perceived risk, the lower the market price (all else
342 equal), and the greater the dividend yield to compensate investors for the higher
343 perceived risk. By definition, the market assessment of risk incorporated in the
344 dividend yield is comprehensive, and includes and accommodates all risk
345 factors.

346 Again, addition of a further amount as a purportedly necessary "small company
347 adjustment" on top of this already comprehensive estimation based on market
348 assessment of risk is double-counting, and serves only to provide additional and
349 unwarranted funds to the particular company, taken from Utah consumers
350 statewide.

351 Similarly, CAPM expresses the relationship between risk and rate of return
352 required by investors – the higher the risk, the higher the required rate of return.
353 CAPM is also based on market data: the return on the “risk free” security or “Rf”
354 (often Treasury Bonds are used as a proxy for this); the expected future return of
355 the stock market or “Rm”; and “beta” which is a statistic that relates the volatility
356 of the stock’s return to the volatility in the market’s return. By definition, the
357 market assessment of risks is included and incorporated in these measures.
358 Again, addition of a further amount as a purportedly necessary “small company
359 adjustment” on top of this already comprehensive estimation based on market
360 assessment of risk is double-counting, and serves only to provide additional and
361 unwarranted funds to the particular company, taken from Utah consumers
362 statewide.

363 **Q. IN CONCERT WITH THIS FUNDAMENTAL PROBLEM OF DOUBLE**
364 **COUNTING OF RISK, IS IT REASONABLE NOT TO ACCOUNT FOR,**
365 **RECOGNIZE OR SUBTRACT REWARDS THAT ARE ASSOCIATED WITH**
366 **A COMPANY’S POSITION?**

367 A. No. It is fundamentally unfair and unreasonable to provide an “adder” for
368 purported unrecognized risk without also recognizing offsetting benefits of a
369 company’s position. A partial listing of these offsetting benefits would include
370 advantages of incumbency in a defined service area which go back to the

371 company’s formation; access to low cost subsidized debt financing through the
 372 RUS and cooperatively-owned banks such as CoBank which also provide low
 373 cost subsidized debt financing; access through these relationships to debt
 374 financing without further loan application, with just a phone call; access to
 375 federal and state universal service funds which many larger companies do not
 376 have; access to equity via accumulation of profits as capital credits which are
 377 retained by the company; ability to recover increased costs through increased
 378 rates as a regulated utility (which a firm in an unregulated industry cannot do);
 379 and advantages of access to businesses and profits of related entities as
 380 illustrated by the following Table 1, from Emery’s 2014 audited operating
 381 results⁷ for each of Emery’s entities, most of which are non-regulated:

382 [BEGIN CONFIDENTIAL]

| <u>Entity</u> | <u>Net Operating Revenue</u> | <u>Total Operating Expenses</u> | <u>Operating Margins</u> | <u>Operating Margin %</u> |
|----------------------------|--------------------------------------|---|------------------------------|-------------------------------|
| Emery Telcom | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Carbon/Emery Telcom | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Hanksville Telcom | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Emery Telcom & Video | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Emery Telcom Long Distance | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Emery Telcom Video LLC | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |

383

⁷ Confidential Exhibit 14 to Supplemental Direct Testimony of Darren Woolsey.

384 [END CONFIDENTIAL]

385 The Commission should not consider granting a “small company premium” for
386 purported risks, without offsetting for the substantial small company benefits
387 that accrue. Ultimately, the market estimations of risk incorporated in the DCF
388 and CAPM methods addresses all risks and benefits, and it is therefore a
389 fruitless, duplicative and unnecessary exercise to seek to account for risks and
390 offsetting benefits.

391 **Q. WHAT IS THE EVIDENCE IN THE FINANCE FIELD WHICH DISPUTES**
392 **THE EXISTENCE OF A “SMALL COMPANY PREMIUM”?**

393 A. The proposition that a “small company premium” exists depends on a belief that
394 markets are inefficient rather than efficient. The existence of efficient markets is
395 a key component of both the DCF and CAPM methods, as well as modern
396 portfolio theory. Both methods use market data from efficient markets to
397 estimate required return on equity on a risk adjusted basis. Proponents of a
398 “small company premium” are in essence stating that financial markets are not
399 efficient, and do not properly adjust prices to reflect risks, and that therefore a
400 premium must be added to required rates of return estimated using market data.
401 Efficient markets are created by the rapid and continuous flow of new
402 information by which any momentary market imperfections are rapidly
403 arbitrated away to an efficient market price, and there is no profit to be made

404 based on trading on a price which is “wrong”. Inefficient markets suggest in
405 contrast that the market price is “wrong” and traders can profit and capitalize on
406 the existence of prices which are “wrong”. The existence of a “small company
407 premium” implies that investors can craft a trading strategy that capitalizes on
408 this market imperfection, and make pure profit over and above that which is
409 indicated by the risk (excess risk adjusted rates of return). An article by
410 Professor Burton Malkiel (author of A Random Walk Down Wall Street)
411 describes the experience of a portfolio manager that has tried to capitalize on
412 these purported market imperfections – prices which are “wrong” – the portfolio
413 manager “failed to make a nickel”. This leads to the conclusion that if
414 professional investors cannot replicate or exploit market imperfections for profit,
415 the market imperfection likely does not exist. As stated by Professor Malkiel:

416 Many of the predictable patterns that have been discovered may simply
417 be the result of data mining. The case of experimenting with financial
418 databanks of almost every conceivable dimension makes it quite likely
419 that investigators will find some seemingly significant but wholly
420 spurious correlation between financial variables or among financial and
421 nonfinancial data sets. Given enough time and massaging of data series, it
422 is possible to tease almost any pattern out of most data sets. Moreover, the
423 published literature is likely to be biased in favor of reporting such results.
424 Significant effects are likely to be published in professional journals while
425 negative results, or boring confirmations of previous findings, are
426 relegated to the file drawer or discarded. Data-mining problems are
427 unique to non-experimental sciences, such as economics, which rely on
428 statistical analysis for their insights and cannot test hypotheses by running
429 repeated controlled experiments.

430 An exchange at a symposium about a decade ago between Robert Shiller,
431 an economist who is sympathetic to the argument that stock prices are

432 partially predictable and skeptical about market efficiency, and Richard
433 Roll, an academic financial economist who also is a portfolio manager, is
434 quite revealing (Roll and Shiller, 1992). After Shiller stressed the
435 importance of inefficiencies in the pricing of stocks, Roll responded as
436 follows:

437 I have personally tried to invest money, my client's money and my
438 own, in every single anomaly and predictive device that academics
439 have dreamed up I have attempted to exploit the so-called year-
440 end anomalies and a whole variety of strategies supposedly
441 documented by academic research. And I have yet to make a nickel
442 on any of these supposed market inefficiencies ... a true market
443 inefficiency ought to be an exploitable opportunity. If there's
444 nothing investors can exploit in a systematic way, time in and time
445 out, then it's very hard to say that information is not being properly
446 incorporated into stock prices.⁸

447 Academic research has found that the data upon which the "small company
448 premium" rests does not accurately measure past returns of NASDAQ (small
449 capitalization) stocks, and it is questionable whether such "small company
450 premium" ever existed.⁹ In essence the negative impact of delisting a stock has
451 been under-included in the reported returns for the small-cap companies.
452 Delisting of a stock occurs much more often with smaller capitalization
453 companies than larger capitalization companies, therefore the delisting bias
454 would inflate the apparent historic returns of the small capitalization companies.

⁸ *The Efficient Market Hypothesis and Its Critics*; Burton G. Malkiel; Journal of Economic Perspectives; Volume 17, Number 1, Winter 2003; pp 59-82. The Journal of Economic Perspectives is provided and supported by the American Economic Association, and publishes invited contributions.

⁹ *The Delisting Bias in CRSP's NASDAQ data and Its Implications for the Size Effect*; Tyler Shumway and Vincent Warther; The Journal of Finance, vol. LIV, No. 6; December 1999, pp 2361 – 2379. The Journal of Finance is a refereed journal.

455 Further, researchers have found that the high returns of the small capitalization
456 group of stocks are driven by a very small fraction of that population.¹⁰ Large
457 companies perform better than all but a very few small capitalization companies
458 that earned very high returns. This would also inappropriately bias upward or
459 even suggest the bare existence of any purported “small company premium”.

460 **Q. AT LINE 92 MR. MEREDITH DEFINES “A SMALL COMPANY PREMIUM**
461 **[AS] AN ADJUSTMENT TO THE CALCULATED RATE OF EQUITY [SIC]**
462 **AND IS DESIGNED TO ACCOUNT FOR THE FACT THAT ACCESS TO**
463 **EQUITY IS MORE CONSTRAINED AS COMPANIES GET SMALLER.**
464 **THUS, DUE TO VARIOUS FACTORS, ACCESS TO CAPITAL REQUIRES A**
465 **PREMIUM OVER A RETURN ON EQUITY FOR MUCH LARGER**
466 **COMPANIES.” PLEASE RESPOND.**

467 **A.** Mr. Meredith provides no evidence whatsoever that Carbon/Emery’s access to
468 capital is at all constrained. In fact, Carbon/Emery’s equity has grown
469 substantially enough to permit paying off all debt, and to continue rapid
470 accumulation of profits and capital credits, all while it is financing a substantial
471 construction program for Fiber to the Home. As shown by Table 1, above, these
472 profits are accumulating in Emery’s non-regulated affiliates. This is hardly the

¹⁰ *On the Robustness of Size and Book-to-Market in Cross-Sectional Regressions*; Peter J. Knez and Mark J. Ready; The Journal of Finance; vol. LII, No. 4, September 1997; pp 1355 – 1382. The Journal of Finance is a refereed journal.

473 profile of an entity that is “capital constrained”. The purported need for a
474 “premium” would be pure profit subsidy from ratepayers statewide to Emery’s
475 patrons.

476 **Q. AT LINE 299, MR. MEREDITH STATES “CARBON/EMERY IS**
477 **CHALLENGED IN THE EQUITY MARKETS”. DOES MR. MEREDITH**
478 **PROVIDE ANY SUPPORT FOR THIS CONTENTION?**

479 A. Mr. Meredith provides no evidence whatsoever that Carbon/Emery is
480 challenged in the equity markets. Further undermining Mr. Meredith’s claims is
481 the fact that Carbon/Emery does not participate in public equity markets. It
482 therefore is unclear what “equity market” Mr. Meredith is referring to. The
483 nature of the “challenge” is not described by Mr. Meredith and the nature of any
484 such “challenge” is very difficult to perceive when Carbon/Emery has
485 accumulated substantial capital credit balances, and has paid off all debt such
486 that it is 100% equity-funded at this point. It begs the question of how much
487 more equity does Carbon/Emery need when it has substantial member-provided
488 equity, and is internally funding a substantial Fiber to the Home construction
489 program while continuing to accumulate substantial capital credits (equity) for
490 its members.

491 Q. AT LINE 193 MR. MEREDITH REFERENCES A RURAL BROADBAND
492 ALLIANCE ESTIMATE OF 6 PERCENT FOR A "SMALL COMPANY
493 ADJUSTMENT". IS SUCH AN ADJUSTMENT WARRANTED?

494 A. No. This "estimate" is drawn from Mr. Meredith's Exhibit 4, which the cover
495 page indicates are comments before the FCC authored by Mr. Vincent Wiemer.
496 This is the same Mr. Wiemer that the Kansas Corporation Commission found
497 had no credibility as a rate of return expert in the LaHarpe case. Also, the very
498 size of the suggested "premium" indicates its inappropriateness. It is egregious
499 to recommend that 6% be added on top of any return on equity determined by
500 DCF or CAPM using market data which by definition includes a market assessed
501 risk/return relationship.

502 Q. DOES THE CAPITAL ASSET PRICING MODEL (CAPM) AND MODERN
503 PORTFOLIO THEORY SUPPORT USE OF A "SMALL COMPANY
504 PREMIUM"?

505 A. No, the use of a "small company premium" clearly conflicts with CAPM and
506 modern portfolio theory. Application of the "small company premium" at best
507 represents an attempt to be compensated for "unsystematic risk" which has very
508 specific meaning in capital markets theory. The market only compensates for
509 "systematic risk" because "unsystematic risk" is diversified away by the prudent

510 investor. The difference and importance of distinguishing between systematic
511 and unsystematic risks is described as follows:

512 The total risk involved in holding a stock is comprised of two parts: the
513 systematic component and the unsystematic component. The first is due
514 to overall market risk and cannot be diversified away. The second risk
515 component, however, is unique to the particular company, being
516 independent of economic, political and other factors that affect securities
517 in a systematic manner. By diversification, this risk can be reduced and
518 even eliminated if diversification is efficient. Therefore, not all of the risk
519 involved in holding a stock is relevant; part of it can be diversified away.
520 Efficient diversification reduces the total risk of the portfolio to the
521 point where only systematic risk remains. the important risk of a
522 security is the responsiveness of its return to changes in the return on the
523 market portfolio, as denoted by its beta. For the individual security,
524 then, the relevant risk is not the standard deviation of the security itself
525 (total risk), but the marginal effect the security has on the standard
526 deviation of an efficiently diversified portfolio (systematic risk). As a
527 result, a security's expected return should be related to its degree of
528 systematic risk, not to its degree of total risk.¹¹

529 **Q. AT LINE 311 MR. MEREDITH INDICATES "ADJUSTING THE BETA" IS**
530 **"ANOTHER STANDARD TOOL". IS THIS IN FACT "STANDARD" IN**
531 **DETERMINATION OF RETURN ON EQUITY BEFORE STATE UTILITY**
532 **COMMISSIONS?**

533 **A.** This is an unsupported assertion by Mr. Meredith. He offers no citation to state
534 commission decisions that have adopted this "standard" adjustment, including
535 to decisions of the Utah PSC. I am unaware of any Commission decision in any
536 jurisdiction where this "standard" adjustment is applied in determination of

¹¹ Financial Management and Policy, James C. Van Horne, Fourth Edition, Prentice-Hall, Inc., 1977, pp.61 - 63 (emphasis added).

537 return on equity. The Commission should not accept Mr. Meredith's
538 unsupported assertion.

539 **Q. BEGINNING AT LINE 319 OF HIS TESTIMONY MR. MEREDITH**
540 **PROPOSES THE USE OF A "LEVERED BETA" TO CALCULATE REQUIRED**
541 **RETURN ON EQUITY. DOES MR. MEREDITH PROVIDE ANY SUPPORT**
542 **FOR THE USE OF "LEVERED BETA" IN CALCULATING RETURN ON**
543 **EQUITY IN A REGULATORY PROCEEDING?**

544 A. No. Mr. Meredith provides no citation to any regulatory proceeding where a
545 commission has used "levered beta" to calculate a required or allowed return on
546 equity. I am not aware of any instance where a state utility commission has
547 accepted or used "levered beta" in its determinations on rate of return. This is
548 not surprising since to my knowledge "levered beta" is not used in valuation
549 settings like estimating rate of return. I have reviewed the various finance and
550 investment texts in my possession¹² and while there are very substantial chapters
551 on CAPM, beta, and related concepts and practices, there is no mention
552 whatsoever of "levered beta" or any equivalent. The standard usage of "levered
553 beta" I believe is for capital budgeting decisions - i.e., whether to undertake a
554 specific capital project, or not - not for valuation estimations such as rate of

¹² These include: Managerial Finance, J. Fred Weston and Eugene F. Brigham; Financial Management and Policy, James C. Van Horne; Investments, Frank K. Reilly; Managing Investment Portfolios: A Dynamic Process, John L. Maginn and Donald L. Tuttle, eds.

555 return. The Commission should disregard Mr. Meredith's "levered beta"
556 discussion and calculations for these reasons.

557 **Q. AT LINE 383 MR. MEREDITH REFERS TO A NEW NTCA-SPONSORED**
558 **RATE OF RETURN METHOD. SHOULD THE COMMISSION GIVE ANY**
559 **WEIGHT TO THIS TESTIMONY?**

560 A. No. Mr. Meredith does not provide any citation to where this new methodology
561 has been used and vetted. Furthermore, the new method requires a substantial
562 new variable - "value" - which by its nature is bound to be controversial. There
563 will be competing estimations of "value" and it does not simplify or streamline
564 the rate of return determination process to add a controversial new variable that
565 must be calculated.

566 **Q. AT LINE 342 OF MR. MEREDITH'S TESTIMONY HE PRESENTS A GRAPH**
567 **DRAWN FROM AN ARTICLE IN THE INVESTMENT MANAGEMENT**
568 **REVIEW, AND CLAIMS THAT THE GRAPH "SHOWS THE VARIOUS**
569 **PREMIA REQUIRED TO CALCULATE RETURNS ACROSS FINANCIAL**
570 **INSTRUMENTS". IS MR. MEREDITH CORRECT IN THIS**
571 **INTERPRETATION OF THE GRAPH?**

572 A. No. Mr. Meredith's statement fundamentally misunderstands the import of the
573 graph. It is not possible to fully assess this graph since the title of the graph is
574 not provided, nor is the article from which it is drawn attached as an exhibit. It

575 appears to me that the graph is not meant to indicate “various premia” that must
576 be added to some base return to calculate a required rate of return, but to explain
577 what composes a required rate of return from one perspective. The standard
578 formulation of the required rate of return is a “required rate of return on an
579 investment is determined by: 1) the economy’s real risk-free rate of return plus
580 2) the expected rate of inflation during the holding period, plus 3) a risk
581 premium.”¹³ Furthermore, Mr. Meredith is not consistent in that he states that
582 “they [the various premia] are required to calculate a rate of return” but he does
583 not provide a rate of return estimation which estimates and sums each of these
584 “various premia”. The Commission should give no weight to this graph because
585 it is not tied to a real calculation of required return on equity. Instead, the
586 Commission should rely upon required return on equity estimations that are
587 clearly based upon the standard formulation of the real risk free rate of return
588 plus expected inflation plus the risk premium – DCF and CAPM.

589 **Q. WOULD COMMISSION ACCEPTANCE OF THE USE OF A “SIZE**
590 **PREMIUM” OR “SMALL COMPANY ADJUSTMENT” IN THIS CASE**
591 **ENCOURAGE OTHER JURISDICTIONAL UTILITIES SUCH AS GAS AND**

¹³ Investments, Frank K. Reilly, The Dryden Press, 1982, at page 191.

592 **ELECTRIC COMPANIES TO ADVOCATE ITS USE TO INCREASE THEIR**
593 **AUTHORIZED RETURN ON EQUITY?**

594 A. Yes, I believe it could. For example, in spite of the fact that the Kansas
595 Corporation Commission has not accepted use of a “small company premium”
596 each time it has been advocated by local exchange companies in KUSF audit
597 proceedings, the largest electric utility in Kansas - Westar Energy - has a rate
598 increase request pending where it has referenced the necessity of adjusting the
599 DCF and CAPM results for “small” company size.¹⁴ If the Utah Commission
600 accepts Carbon/Emery’s request to employ a “small company” or “size”
601 adjustment to the CAPM results, I believe it would be likely that other
602 jurisdictional utilities in Utah would also request additional premiums on top of
603 the cost of equity results indicated by DCF and CAPM. I believe this would be
604 an egregious error because (as discussed above) by definition the CAPM
605 methodology is designed to capture and compensate for market-
606 based systematic risk of equity investments. By definition the CAPM estimation
607 is risk adjusted, and it would be inappropriate double-recovery to include

¹⁴ In the Matter of the Application of Westar Energy, Inc. and Kansas Gas and Electric Company to Make Certain Changes in Their Charges for Electric Service; Docket No. 15 - WSEE - 115 - RTS; Direct Testimony of Tony Somma on behalf of Westar Energy, at page 27. This Direct Testimony is publicly available on the KCC website at www.kcc.state.ks.us

608 additional premium on top of that estimation. The DCF method is also based on
609 market data and estimations designed to capture and recognize all risks.

610 **Q. PLEASE SUMMARIZE HOW AND WHY MR. MEREDITH'S TESTIMONY**
611 **CONTRADICTS WELL ACCEPTED PRINCIPLES OF FINANCE AND**
612 **THEREFORE YIELDS RATE OF RETURN ESTIMATIONS WHICH ARE**
613 **ESSENTIALLY MEANINGLESS AND WITHOUT PROPER FOUNDATION.**

614 **A.** Mr. Meredith's testimony obfuscates basic principles of finance and rate of return
615 determination in regulatory cases, and is otherwise internally inconsistent. The
616 Commission should find that a return on equity and overall rate of return of the
617 magnitude sought by Carbon/Emery is unwarranted and unnecessary in today's
618 capital markets, and is imbalanced against the wireline and wireless services
619 consumers that pay into the UUSF to provide funds for individual local exchange
620 companies like Carbon/Emery. Carbon/Emery's original requested return on
621 equity is 12.13%, and a requested overall rate of return of 10.50%. Mr. Meredith
622 offers a variety of recommendations, including that "the rate of return for
623 Carbon/Emery should be higher than the proposed 10.50 percent" (line 166);
624 "the median value [for the NECA calculated rate of return] was at least 11.75
625 percent" (line 388); "a 16.83 percent intrastate cost of equity yields an adjusted
626 weighted average cost of capital of 12.34 percent" (line 322) which cost of equity
627 "account[s] for a conservative size premium" (line 368). Mr. Meredith's

628 potpourri is disconnected from the standard methods of rate of return analysis
629 used by state utility commissions – Discounted Cash Flow (DCF) and Capital
630 Asset Pricing Model (CAPM) – and violates fundamental principles in finance by
631 which risk and return are related, and under which investors are
632 compensated only for systematic risk as calculated in the “beta” associated with
633 each security. Mr. Meredith’s testimony begs the question of what does he
634 believe specifically is an appropriate rate of return, and lends itself to an
635 interpretation such “specific” rate of return would simply be the highest return
636 the Commission can be persuaded to accept.

637 Mr. Meredith’s disconnection from standard methods of rate of return analysis
638 used by state utility commissions is illustrated by his testimony which:

- 639 • Without serious explanation or consideration discards use of DCF, which
640 is the fundamental method for asset valuation;
- 641 • Provides no evidence whatsoever that the company’s access to equity or
642 capital is at all constrained;
- 643 • Advocates use of “levered beta”, which is not used or recognized for rate of
644 return analysis by state utility commissions, and is instead oriented toward
645 internal capital budgeting decisions of firms;

- 646 • Advocates use of “various premia” layered on top of determined rate of
647 returns, which premia are not used or recognized for rate of return analysis
648 by state utility commissions;
- 649 • Advocates use of “various premia”, the very existence of which is
650 inconsistent with efficient markets principles of finance and capital markets,
651 and whose existence would necessarily imply profitable exploitable
652 investment strategies – using which professional investors have “yet to make
653 a nickel”;
- 654 • Advocates use of “various premia” as an additive to reflect purported
655 additional risks, without consideration of substantial offsetting additional
656 benefits which pertain to incumbent local exchange companies;
- 657 • Advocates use of “various premia”, which researchers have found may very
658 well not exist, whose apparent existence may be the result of “data mining”,
659 which may be indicative of correlation but not causation, and may ultimately
660 stem from “survivor” bias in the small company database as well as being
661 driven by a very small fraction of outliers in the data;
- 662 • Advocates use of “various premia”, which is entirely inconsistent with
663 modern portfolio theory under which investors are compensated only
664 for systematic risk (expressed via the “beta”) within an efficient portfolio, but
665 not for unsystematic risk; and,

- 666 • Contains inappropriate and unfounded speculation and conjecture regarding
667 why the FCC may or may not have acted on its staff report.

668 The Commission should adopt the overall rate of return of 8.45% based on a 10%
669 return on equity which is recommended in my Direct Testimony. This
670 recommendation has a demonstrable, solid foundation in regulatory practices for
671 rate of return determination, and finance theory and practices. This
672 recommendation reflects a proper balance for those Utah statewide consumers
673 that pay monthly charges through their wireless and wireline services provider
674 bills to fund the UUSF, and those individual incumbent companies that seek to
675 draw from the UUSF. Finally, this recommendation is very consistent with rates
676 of return on equity recently granted by the Commission.

677 **Q. DOES THIS COMPLETE YOUR PREFILED SURREBUTTAL TESTIMONY?**

678 **A. Yes.**