

BEFORE THE PUBLIC SERVICE COMMISSION OF UTAH

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|-------------------------------------|---|----------------------|
| In the Matter of UBTA-UBET          | ) |                      |
| Communications, Inc.'s              | ) | Docket No. 15-053-01 |
| (DBA Strata Networks)               | ) |                      |
| Application for an Increase in      | ) | Direct Testimony     |
| Utah Universal Service Fund Support | ) | of David Brevitz     |
|                                     | ) | For the Office of    |
|                                     | ) | Consumer Services    |

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NON-CONFIDENTIAL VERSION - REDACTED

September 25, 2015

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INTRODUCTION

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

3 A. My name is David Brevitz. My business address is Brevitz Consulting Services,  
4 3623 SW Woodvalley Terrace, Topeka, KS, 66614.

5 **Q. BY WHOM AND IN WHAT CAPACITY ARE YOU EMPLOYED?**

6 A. I am an independent regulatory consultant serving state regulatory  
7 commissions, Attorney's General offices, and consumer organizations. In this  
8 proceeding, I am testifying on behalf of the Utah Office of Consumer Services  
9 (OCS).

10 **Q. PLEASE STATE YOUR EXPERIENCE AND PROFESSIONAL**  
11 **QUALIFICATIONS.**

12 A. I have thirty-four years of experience in telecommunications and  
13 telecommunications regulatory issues and practices including finance,  
14 economics and accounting for utilities generally and telecommunications  
15 providers specifically, and the evolution of telecommunications markets,  
16 technologies and providers. I earned an undergraduate degree in Justice,  
17 Morality and Constitutional Democracy from James Madison College (a  
18 residential college at Michigan State University) and a Master's degree in  
19 Business Administration with an emphasis in Finance, from the School of  
20 Business at Michigan State University. I served first as an Economist, and then  
21 as Chief of the Telecommunications Division at the Kansas Corporation

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22 Commission. While serving in the latter position, I was responsible for all  
23 telecommunications matters before the Commission, including addressing  
24 matters subsequent to AT&T Divestiture such as implementation of access  
25 charges, certification proceedings for new entrants, supervision of numerous  
26 telecommunications company rate cases addressing rate of return, rate design  
27 and revenue requirements, addressing industry issues on a generic basis, and  
28 oversight of quality of service standards and issues. I then served as Director of  
29 Regulatory Affairs for a group of 20 or more independent telephone companies  
30 in Kansas, working on the many industry issues at that time. In February 1994 I  
31 began work as an independent consultant in telecommunications, serving state  
32 utility commissions and consumer counsels, as well as international regulatory  
33 bodies. As an independent consultant I have addressed numerous cases and  
34 issues including competition and deregulation, substitute services and  
35 intermodal competition, quality of service, bundled services, access charges,  
36 price floors and imputation, jurisdictional cost allocations including direct  
37 assignments, and requirements of the Telecommunications Act of 1996 including  
38 competition, interconnection requirements, resale, unbundled elements,  
39 TELRIC/cost studies, wholesale quality of service standards, price  
40 cap/alternative regulation plans and Section 271 applications. As a result of  
41 these assignments, I have current expertise regarding state and federal universal  
42 service funds, telephone company rate of return and revenue requirements, and

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43 evolving telecommunications markets. A complete description of my  
44 background, work in prior telecommunications cases and experience in  
45 telecommunications and utility regulation is provided as Exhibit OCS 3D-1.

46 **Q. DO YOU HAVE OTHER RELEVANT QUALIFICATIONS?**

47 A. Yes. In 1984 I was designated as a Chartered Financial Analyst by the Institute  
48 of Chartered Financial Analysts (“ICFA”), which later became the CFA Institute.  
49 The CFA Institute is the organization which has defined and organized a body of  
50 knowledge important for all investment professionals. The general areas of  
51 knowledge are ethical and professional standards, accounting, statistics and  
52 analysis, economics, fixed income securities, equity securities, and portfolio  
53 management.

54 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?**

55 A. The purpose of my testimony is to convey the results of my review and analysis  
56 of Strata Network’s (“Strata”) Application for additional funding from the Utah  
57 Universal Service Fund (UUSF). In particular I focused on Strata’s proposed rate  
58 of return. I also support Mr. Ostrander’s adjustment to remove plant used  
59 primarily by Non-regulated operations, based on my tour of these facilities  
60 during the site visit. Mr. Ostrander’s adjustment is consistent with and based on  
61 what I observed on this tour of Strata facilities.

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SUPPORT FOR ADJUSTMENT BCO-7

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**Q. MR. OSTRANDER INDICATES THAT YOU TOURED THE BUILDINGS AND PROPERTIES IDENTIFIED IN ADJUSTMENT BCO-7 AND THAT HE IS RELYING ON YOUR OBSERVATIONS AS SUPPORT FOR HIS ADJUSTMENT. PLEASE DESCRIBE WHAT YOU OBSERVED DURING YOUR PHYSICAL REVIEW.**

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A. Strata has numerous buildings and properties on its books. Strata management provided OCS and DPU personnel with a tour of these buildings and properties during our site visit. This tour was necessary to assess and determine whether Strata's cost allocation process between and among affiliates is adequate and properly assigns property to the appropriate affiliate, or provides for current and accurate rental payments from the deregulated affiliates. This verification is very important due to the size and number of deregulated affiliates under the Strata umbrella. My tour of properties and facilities demonstrated to me that many of them had little if anything to do with provision of regulated basic telephone service, and in fact the primary use appeared to be for deregulated operations – yet as determined by Mr. Ostrander the costs of these buildings and properties have been included by Strata in proposed UUSF revenue requirements without demonstrable current and offsetting rent revenues. Mr. Ostrander's adjustment BCO-7 properly removes costs associated with three properties whose

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82 acquisition and remodeling is clearly for the purpose of supporting Strata's  
83 deregulated affiliates.

84 STRATA'S PROPOSED RATE OF RETURN

85 **Q. WHAT OVERALL RATE OF RETURN IS PROPOSED BY STRATA IN THIS**  
86 **CASE?**

87 A. Mr. Searle's testimony on behalf of the company states at line 89 that Strata seeks  
88 the use of an overall rate of return of 9.50%, "which represents the weighted  
89 average of an interstate rate of return of 11.45 percent and a state rate of return of  
90 8.17 percent", using "Strata's actual capital structure (approximately 50 percent  
91 equity and 50% debt". For the interstate return, Strata uses a rate of 11.45%,  
92 "derived from NECA's Form 492 filing with the FCC on September 30, 2014 for  
93 calendar year 2013 pool participants".<sup>1</sup> For the proposed state return, use of  
94 Strata's actual capital structure and proposed cost of debt and equity yield a state  
95 overall rate of return of 8.17%. Mr. Searle's testimony on behalf of Strata states it  
96 computes the overall rate of return using the state/interstate weighting process  
97 as set out in R746-360-8(A)(1). Further information on the computation of the  
98 proposed rate of return is contained in Mr. Searle's Exhibit 2.3, which is claimed  
99 confidential by Strata.

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<sup>1</sup> Direct Testimony of Karl Searle, at line 100. ("Searle Direct")

100 Q. DO THE COMMISSION'S RULES SET OUT ANY PRINCIPLES OR  
101 STANDARDS FOR WHAT CONSTITUTES A REASONABLE RATE OF  
102 RETURN FOR PURPOSES OF THE UUSF?

103 A. No. However, a reasonable rate of return for UUSF purposes should balance the  
104 interests of Utah's consumers that pay into the UUSF with the interests of  
105 investors in the specific company that is requesting UUSF funding. A reasonable  
106 rate of return should fairly compensate existing investors, maintain the utility's  
107 financial integrity, and permit it to attract capital if needed on reasonable terms  
108 related to the utility's risk. In particular in this case, it should be noted that  
109 Strata is a cooperative in which its "investors" are members who are required to  
110 subscribe to basic local service at the minimum and earn "capital credits" in  
111 proportion to basic and other services purchased.

112 Q. IS THE RATE OF RETURN PROPOSED BY STRATA FOR COMPUTATION  
113 OF ADDITIONAL FUNDS REQUESTED FROM THE UNIVERSAL SERVICE  
114 FUND PROPERLY BALANCED?

115 A. No. Strata's proposed rate of return is imbalanced between the interests of the  
116 company and the consumers statewide that pay in to the UUSF to support  
117 funding such as this. Strata's calculation of the proposed rate of return is flawed  
118 in a certain respects, and must be adjusted to provide for a balanced rate of  
119 return. I recommend on behalf of the Office of Consumer Services that the  
120 Commission use an overall rate of return applied to rate base which is no greater

121 than 7.50% to compute any universal service fund payment in this case. The  
 122 computation of this proposed overall rate of return is show in the tables below,  
 123 with following analysis and support.

124 **[BEGIN CONFIDENTIAL]**

| <u>Intrastate ROR</u> | <u>Capital Structure</u> | <u>Cost</u> | <u>Weighted Cost</u> |
|-----------------------|--------------------------|-------------|----------------------|
| Debt                  | ██████                   | 2.57%       | ██████               |
| Equity                | ██████                   | 10.00%      | ██████               |
| Total Intrastate      |                          |             | ██████               |

| <u>Total ROR</u>           | <u>Separation Factor</u> | <u>Weighted Cost</u> |
|----------------------------|--------------------------|----------------------|
| Intrastate                 | ██████                   | 6.21%                |
| Interstate                 | ██████                   | 9.40%                |
| Recommended Rate of Return |                          | ██████               |

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126 **[END CONFIDENTIAL]**

127 **Q. WHY IS YOUR RATE OF RETURN TABLE ABOVE INDICATED TO BE**  
 128 **“CONFIDENTIAL”?**

129 **A.** It is indicated to be confidential because I am following Strata’s claim of  
 130 confidentiality, for the initial filing of this Direct Testimony. The concern is that  
 131 disclosure of some elements of the calculation permit one to “back in to” other  
 132 elements that may be claimed confidential, such as the separations factor. It may  
 133 be that ultimately Strata would not claim the information in my table is  
 134 confidential. However, if Strata were to maintain a confidentiality claim I do not  
 135 believe the Commission should accept such a claim for rate of return calculation.  
 136 In fact, Strata has already essentially disclosed the information. Mr. Searle’s  
 137 testimony at lines 88 – 94 provides sufficient information that the unknown



138 (purportedly confidential) items can be derived algebraically using an iteration  
 139 or two of interpolation, as shown here:

|                  | Capital Structure | Cost   | Weighted Cost  |
|------------------|-------------------|--------|----------------|
| Intrastate ROR   |                   |        |                |
| Debt             | 51.00%            | 2.57%  | 1.31%          |
| Equity           | 49.00%            | 14.01% | 6.86%          |
| Total Intrastate |                   |        | 8.17%<br>8.18% |
| Total ROR        | Separation Factor |        |                |
| Intrastate       | 60.00%            | 8.18%  | 4.91%          |
| Interstate       | 40.00%            | 11.45% | 4.58%          |
| Total ROR        |                   |        | 9.50%<br>9.49% |

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141 Specifically, the “unknowns” of the Capital Structure and Separation Factor can  
 142 be solved for using algebra and a little interpolation, given the information  
 143 disclosed in Mr. Searle’s testimony. Regardless, Strata has not demonstrated any  
 144 competitive harm at all that would arise from disclosure of the capital structure  
 145 and separations factor. I cannot conceive of anything a competitor could do with  
 146 this data that would harm Strata competitively. Furthermore, confidentiality of  
 147 rate of return calculations is imbalanced in favor of the individual company  
 148 versus the statewide Utah consumer base that pays into and funds the UUSF. On  
 149 balance it should be transparent what rate of return is being requested from Utah  
 150 consumers statewide, and how that rate of return is derived.

151 **Q. SHOULD THE COMMISSION ADJUST THE STATE/INTERSTATE**  
 152 **WEIGHTING FACTORS PROPOSED BY STRATA TO ACCOMPLISH THE**

153 **WEIGHTED AVERAGING OF STATE AND INTERSTATE RETURNS**  
154 **ACCORDING TO R746-360-8(A)(1)?**

155 A. No, the state/interstate weighting factors as calculated and proposed by Strata  
156 appear from my review to be reasonable for use in this case.

157 **Q. HAS STRATA PROPOSED TO USE A REASONABLE COST OF DEBT?**

158 A. Yes. Strata proposed to use the stated rate of interest on its debt which is 2.57  
159 percent. Since it is a reasonable and actual cost of debt, I consider Strata's  
160 proposed cost of debt to be reasonable for use in computing the overall rate of  
161 return in this case.

162 **Q. SHOULD THE COMMISSION ACCEPT STRATA'S PROPOSED CAPITAL**  
163 **STRUCTURE OF APPROXIMATELY 50% EQUITY AND 50% DEBT?**

164 A. Yes. Per Mr. Searle's testimony at line 91, it is a reasonable capital structure  
165 based on Strata's actual capital structure.

166 **Q. SHOULD THE COMMISSION ACCEPT AND USE STRATA'S PROPOSED**  
167 **11.45% INTERSTATE RATE OF RETURN?**

168 A. No. Strata states this interstate rate of return is "derived from NECA's Form 492  
169 filing with the FCC on September 30, 2014 for calendar year 2013 pool  
170 participants".<sup>2</sup> Strata provided this Form 492 in response to OCS 2.5(a).<sup>3</sup>  
171 Review of NECA's Rate of Return Report on FCC Form 492 indicates there are

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<sup>2</sup> Direct Testimony of Karl Searle, at line 100.

<sup>3</sup> This document is attached as Exhibit OCS 3D-2.

172 several calculated rates of return, and that Strata has selected the highest rate of  
 173 return depicted on the Report. The Form contains rate of return for Switched  
 174 Traffic Sensitive, Special Access, Common Line, and Interstate Access which is a  
 175 total of Special Access, Common Line and Switched Traffic Sensitive, as  
 176 displayed in the following table:

|                            | <u>Rate of<br/>Return</u> |
|----------------------------|---------------------------|
| Switched Traffic Sensitive | 10.12%                    |
| Special Access             | 6.05%                     |
| Common Line                | 11.45%                    |
| Interstate Access          | 9.40%                     |

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178 The appropriate rate of return to use is the Interstate Access return – 9.40%,  
 179 which is the rate of return for all interstate access. This is the full interstate  
 180 return for all elements, not just one selected rate element (Common Line). The  
 181 full interstate access rate of return is the appropriate rate of return to use for the  
 182 interstate jurisdictional component of the weighted rate of return calculation  
 183 under the Commission’s rules. It is the rate of return I have used in my  
 184 computation of overall rate of return. The Commission should not permit Strata  
 185 to select the highest rate of return that appears on the Form 492, which is for only  
 186 one subset of the interstate jurisdiction – “Common Line”.

187 **Q. HOW IS THE USE OF THE RATE OF RETURN FOR ONLY THE**  
 188 **INTERSTATE NECA COMMON LINE POOL CONTRARY TO THE**  
 189 **COMMISSION’S RULES?**

190 A. The Commission’s rules at Utah Admin. Code § R746-360-8 (A) (1) clearly require  
 191 calculation of “a weighted average rate of return on capital of the intrastate and  
 192 interstate jurisdiction” (emphasis added). The 11.45% rate of return for the  
 193 Common Line pool proposed by Strata comprises only a portion of the interstate  
 194 jurisdictional services. Use of only the Common Line portion of the interstate  
 195 jurisdiction fails to account for the other interstate jurisdictional services in the  
 196 interstate rate of return recommendation – which include the categories of  
 197 switched and special access.

198 **Q. DOES STRATA IN FACT HAVE INTERSTATE SWITCHED AND SPECIAL**  
 199 **ACCESS SERVICES, AND CAPITAL DEVOTED TO THOSE SERVICES?**

200 A. Yes, Strata like all incumbent local exchange companies provides these services.  
 201 In fact these other services (unrecognized in the common line rate of return) are  
 202 the preponderant part of Strata’s interstate jurisdictional rate base according to  
 203 Strata’s cost separations study, as shown by the following calculation drawn  
 204 from Strata’s Part 36 and 69 distribution of its interstate rate base in its 2013 cost  
 205 study (provided in response to DPU 1.11 (a) and (b), respectively).

206 **[BEGIN CONFIDENTIAL]**

| <u>Rate Base</u>                           | <u>Amount</u> | <u>Source</u>           |
|--|---------------|-------------------------|
| Interstate Message Toll                    | ██████████    | 2013 Part 36, S-1, LN 1 |
| Interstate Special Access                  | ██████████    | 2013 Part 36, S-1, LN 1 |
| Total Interstate Rate Base                 | ██████████    |                         |
| <hr style="border-top: 3px double #000;"/> |               |                         |
| Less: Part 69 Special Access               | ██████████    | 2013 Part 69, A-1, LN 1 |

|                                 |            |                         |
|---------------------------------|------------|-------------------------|
| Less: Part 69 DSL               | ██████████ | 2013 Part 69, A-1, LN 1 |
| Less: Part 69 Traffic Sensitive | ██████████ | 2013 Part 69, A-1, LN 1 |
| Total Non-Common Line Rate Base | ██████████ |                         |

Common Line Rate Base ██████████ Calculated

Common Line % of IS Rate Base ██████ calculated

Switched and Special % of IS Rate Base ██████ calculated

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208 [END CONFIDENTIAL]

209 Strata’s proposed 11.45% drawn from the rate of return for only the common line  
 210 pool is applicable to only [BEGIN CONFIDENTIAL] ██████ [END  
 211 CONFIDENTIAL] of Strata’s interstate jurisdictional rate base, and thus does  
 212 not meet the Commission’s rule, which requires “weighted average rate of return  
 213 on capital of the intrastate and interstate jurisdiction”. Fully [BEGIN  
 214 CONFIDENTIAL] ██████ [END CONFIDENTIAL] of capital (or rate base) for  
 215 interstate jurisdictional services is unaccounted for by use of the 11.45% rate of  
 216 return for only the common line portion of the interstate business. It is for this  
 217 reason, to be consistent with the Commission’s rules, which are stated to be on a  
 218 “Total Company” basis, that I recommended use of the full interstate  
 219 jurisdictional rate of return as shown on the Form 492 - 9.40%.

220 Q. IS THE USE OF THE COMMON LINE ONLY RATE OF RETURN  
 221 INCONSISTENT WITH THE COMPANY’S PROPOSED

222 STATE/INTERSTATE SEPARATION FACTOR CONTAINED IN MR.  
223 SEARLE'S EXHIBIT 2.3?

224 A. Yes. The separation factor divides rate base for Strata between interstate and  
225 intrastate under FCC separations rules. The company's proposed  
226 state/interstate separations factors total to 100% as they should, yet the 11.45%  
227 common line rate of return is applicable to only a relatively small fraction of that  
228 interstate rate base as shown above, leaving the difference identified above  
229 unaccounted for under the Commission's rules.

230 Q. IF IN FACT STRATA ONLY PARTICIPATED IN NECA'S COMMON LINE  
231 POOL, AND NOT IN NECA'S TRAFFIC SENSITIVE AND SPECIAL ACCESS  
232 POOLS, DOES THAT JUSTIFY USE OF THE COMMON LINE POOL  
233 RETURN RATHER THAN A TOTAL INTERSTATE RATE OF RETURN?

234 A. No. Doing so would leave unrecognized very significant "capital" or rate base  
235 deployed in the interstate jurisdiction for which no rate of return is provided. In  
236 my opinion based on a plain reading as a non-attorney, the Commission's rules  
237 require a rate of return be ascribed to all capital in both the state and interstate  
238 jurisdiction. Use of the total interstate rate of return displayed on the NECA rate  
239 of return report is the best way to achieve this result.

240 Q. IS EVEN THIS INTERSTATE RATE OF RETURN TOO HIGH FOR USE IN  
241 DETERMINATION OF UUSF FUNDING?

242 A. Yes. Even the overall interstate access rate of return of 9.40% is unreasonably  
243 high, as compared to the computation of the state portion of the weighted rate of  
244 return. However, it use appears to be required by the Commission's rules. An  
245 overall rate of return at the level indicated by the state rate of return computation  
246 would be appropriate on a total company basis. In fact the separate  
247 development of state and interstate rates of return is inconsistent with the "Total  
248 Company" requirement of the Commission's rules.

249 **Q. WHAT WOULD BE A MORE CONSISTENT APPROACH UNDER A**  
250 **"TOTAL COMPANY" VIEW?**

251 A. A consistent approach would be to take total company operations - state and  
252 interstate - and apply a total company rate of return developed to apply on an  
253 overall basis. Strata does not have different costs of capital in the marketplace  
254 depending on the state or interstate service jurisdiction. Strata has a single cost  
255 of capital that exists for its combined total company operations. The weighted  
256 state/interstate rate of return serves to artificially increase the rate of return for  
257 UUSF funding. Calculating the impact of the use of the unreasonably high rate  
258 of return proposed by Strata in this case under the rule - 9.50% -- versus  
259 applying the state rate of return of 6.21% as a total company rate of return, yields  
260 a reduction of approximately \$1,290,616 from Strata's UUSF request of \$3,422,053  
261 to a revised UUSF amount of \$2,131,437. Fully 38% of Strata's UUSF request can  
262 be attributed to use of the rate of return derived from weighting state and

263 interstate (using 11.45% as the interstate return assumption), versus use of a  
264 properly determined total company rate of return.

265 **Q. SHOULD THE COMMISSION USE AND ACCEPT STRATA'S PROPOSED**  
266 **14.01% INTRASTATE RETURN ON EQUITY?**

267 A. No. Strata's only support for this requested return on equity is in footnote 2 of  
268 the Searle Direct Testimony, which states "The cost of equity is based on a recent  
269 study" (emphasis added) and refers to the statement of Dr. Billingsley attached  
270 to comments filed before the FCC by "the National Exchange Carrier  
271 Association, Inc., NTCA – The Rural Broadband Association, USTELCOM,  
272 Eastern Rural Telecom Association, and Western Telecommunications Alliance"  
273 on July 25, 2013. Review of Dr. Billingsley's statement as provided in response to  
274 OCS 2.4(b) indicates that the requested return on equity is not specifically  
275 supported in the statement, and the reference is misleading in a number of  
276 respects. First, while according to Mr. Searle's footnote, the Comments are dated  
277 July 25, 2013, Dr. Billingsley's statement is dated January 18, 2012. This cannot  
278 be claimed to be a "recent study". Return on equity by its nature changes over  
279 time, and the more dated the analysis the less likely it is to be an appropriate rate  
280 of return for use in the current case. With the passage of almost four years since  
281 Dr. Billingsley's statement was produced (from which claims to have drawn its  
282 proposed 14.01% return of equity), the Commission should find that the  
283 proffered return on equity estimation contained in the statement is not a "recent



284 study" should be given little or no weight. Required rates of return have  
285 declined substantially since that time, as the Commission can verify by observing  
286 trends in its own rate of return awards over that same period. Furthermore,  
287 word search of the Billingsley statement indicates that "14.01" percent is not  
288 present anywhere in the Billingsley statement, let alone at page 10 as indicated in  
289 the footnoted citation. Nor is "14.01" percent present anywhere in the  
290 association comments cited in footnote 2 and provided in response to OCS 2.4(a).  
291 Thus there is no support whatsoever for Strata's requested return on equity. Put  
292 in the light most favorable to Strata, Dr. Billingsley's statement at page 7 (which  
293 is page 10 of the pdf document) does state "the average of the DCF and CAPM  
294 cost of capital estimates is 13.35%". However, as noted above, this estimate is  
295 almost 4 years old, and includes "an additional risk premium" for "small  
296 capitalization firms".<sup>4</sup>

297 **Q. SHOULD THE COMMISSION ACCEPT USE OF A "SMALL COMPANY**  
298 **PREMIUM" OR "SMALL COMPANY SIZE ADJUSTMENT" AS AN**  
299 **ADDITIVE FACTOR FOR RETURN ON EQUITY DETERMINATIONS?**

300 **A.** No. The Commission should not accept or include a "small company premium"  
301 on top of an appropriately determined return on equity. There is no basis for  
302 such a premium as is sometimes sought to be applied to rate of return regulated

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<sup>4</sup> Statement of Dr. Randall Billingsley, Response to OCS 2.4(b), at page 7.

303 rural telephone companies, and has been sought here through Strata's reference  
304 to Dr. Billingsley's statement.

305 **Q. PLEASE EXPLAIN IN MORE DETAIL WHY USE OF A SMALL COMPANY**  
306 **PREMIUM IS NOT APPROPRIATE OR NECESSARY.**

307 A. State utility commissions typically rely on two methods for estimating the  
308 required return on equity: the Discounted Cash Flow (DCF) and Capital Asset  
309 Pricing Model (CAPM) methods. DCF is universally used in state rate case  
310 proceedings, and is the standard tool for rate of return on equity estimation and  
311 valuation of assets of all types. CAPM is also often used in regulatory cases and  
312 is a standard tool in modern portfolio theory for risk/return evaluation. The  
313 DCF estimates the investor's required rate of return using dividend yield of  
314 comparable companies and the growth rate in earnings and dividends expected  
315 by investors. Dividend yield is based on public market data of dividends  
316 divided by the market price of the common stock. The market price of the  
317 common stock incorporates the market's assessment of the risks facing the  
318 enterprise. The higher the perceived risk, the lower the market price (all else  
319 equal), and the greater the dividend yield to compensate investors for the higher  
320 perceived risk. By definition, the market assessment of risk incorporated in the  
321 dividend yield is comprehensive, and includes and accommodates all risk  
322 factors.

323 Addition of a further amount as a purportedly necessary “small company  
324 adjustment” on top of this already comprehensive estimation based on market  
325 assessment of risk is double-counting, and serves only to provide additional and  
326 unwarranted funds to the particular company, taken from Utah consumers  
327 statewide.

328 Similarly, CAPM expresses the relationship between risk and rate of return  
329 required by investors – the higher the risk, the higher the required rate of return.  
330 CAPM is also based on market data: the return on the “risk free” security or “Rf”  
331 (often Treasury Bonds are used as a proxy for this); the expected future return of  
332 the stock market or “Rm”; and “beta” which is a statistic that relates the volatility  
333 of the stock’s return to the volatility in the market’s return. By definition, the  
334 market assessment of risks is included and incorporated in these measures.

335 Again, addition of a further amount as a purportedly necessary “small company  
336 adjustment” on top of this already comprehensive estimation based on market  
337 assessment of risk is double-counting, and serves only to provide additional and  
338 unwarranted funds to the particular company, taken from Utah consumers  
339 statewide.

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

344 A. No. It is fundamentally unfair and unreasonable to provide an “adder” for  
345 purported unrecognized risk without also recognizing offsetting benefits of a  
346 company’s position. A partial listing of these offsetting benefits would include  
347 advantages of incumbency in a defined service area which go back to the  
348 company’s formation; access to low cost subsidized debt financing through the  
349 RUS and cooperatively-owned banks such as CoBank which also provide low  
350 cost subsidized debt financing; access through these relationships to debt  
351 financing without further loan application, with just a phone call; access to  
352 federal and state universal service funds which many larger companies do not  
353 have; access to equity via accumulation of profits as capital credits which are  
354 retained by the company; ability to recover increased costs through increased  
355 rates as a regulated utility (which a firm in an unregulated industry cannot do);  
356 and advantages of access to businesses and profits of related entities.

357 The Commission should not consider granting a “small company premium” for  
358 purported risks, without offsetting for the substantial small company benefits  
359 that accrue. Ultimately, the market estimations of risk incorporated in the DCF  
360 and CAPM methods addresses all risks and benefits, and it is therefore a  
361 fruitless, duplicative and unnecessary exercise to seek to account for risks and  
362 offsetting benefits.

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

365 A. The proposition that a “small company premium” exists depends on a belief that  
366 markets are inefficient rather than efficient. The existence of efficient markets is  
367 a key component of both the DCF and CAPM methods, as well as modern  
368 portfolio theory. Both methods use market data from efficient markets to  
369 estimate required return on equity on a risk adjusted basis. Proponents of a  
370 “small company premium” are in essence stating that financial markets are not  
371 efficient, and do not properly adjust prices to reflect risks, and that therefore a  
372 premium must be added to required rates of return estimated using market data.  
373 Efficient markets are created by the rapid and continuous flow of new  
374 information by which any momentary market imperfections are rapidly  
375 arbitrated away to an efficient market price, and there is no profit to be made  
376 based on trading on a price which is “wrong”. Inefficient markets suggest in  
377 contrast that the market price is “wrong” and traders can profit and capitalize on  
378 the existence of prices which are “wrong”. The existence of a “small company  
379 premium” implies that investors can craft a trading strategy that capitalizes on  
380 this market imperfection, and make pure profit over and above that which is  
381 indicated by the risk (excess risk adjusted rates of return). An article by  
382 Professor Burton Malkiel (author of A Random Walk Down Wall Street)  
383 describes the experience of a portfolio manager that has tried to capitalize on  
384 these purported market imperfections – prices which are “wrong” – the portfolio  
385 manager “failed to make a nickel”. This leads to the conclusion that if

386 professional investors cannot replicate or exploit market imperfections for profit,  
387 the market imperfection likely does not exist. As stated by Professor Malkiel:

388 Many of the predictable patterns that have been discovered may simply  
389 be the result of data mining. The case of experimenting with financial  
390 databanks of almost every conceivable dimension makes it quite likely  
391 that investigators will find some seemingly significant but wholly  
392 spurious correlation between financial variables or among financial and  
393 nonfinancial data sets. Given enough time and massaging of data series, it  
394 is possible to tease almost any pattern out of most data sets. Moreover, the  
395 published literature is likely to be biased in favor of reporting such results.  
396 Significant effects are likely to be published in professional journals while  
397 negative results, or boring confirmations of previous findings, are  
398 relegated to the file drawer or discarded. Data-mining problems are  
399 unique to non-experimental sciences, such as economics, which rely on  
400 statistical analysis for their insights and cannot test hypotheses by running  
401 repeated controlled experiments.

402 An exchange at a symposium about a decade ago between Robert Shiller,  
403 an economist who is sympathetic to the argument that stock prices are  
404 partially predictable and skeptical about market efficiency, and Richard  
405 Roll, an academic financial economist who also is a portfolio manager, is  
406 quite revealing (Roll and Shiller, 1992). After Shiller stressed the  
407 importance of inefficiencies in the pricing of stocks, Roll responded as  
408 follows:

409 I have personally tried to invest money, my client's money and my  
410 own, in every single anomaly and predictive device that academics  
411 have dreamed up .... I have attempted to exploit the so-called year-  
412 end anomalies and a whole variety of strategies supposedly  
413 documented by academic research. And I have yet to make a nickel  
414 on any of these supposed market inefficiencies ... a true market  
415 inefficiency ought to be an exploitable opportunity. If there's  
416 nothing investors can exploit in a systematic way, time in and time  
417 out, then it's very hard to say that information is not being properly  
418 incorporated into stock prices.<sup>5</sup>

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<sup>5</sup> *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

419 Academic research has found that the data upon which the “small company  
420 premium” rests does not accurately measure past returns of NASDAQ (small  
421 capitalization) stocks, and it is questionable whether such “small company  
422 premium” ever existed.<sup>6</sup> In essence the negative impact of delisting a stock has  
423 been under-included in the reported returns for the small-cap companies.  
424 Delisting of a stock occurs much more often with smaller capitalization  
425 companies than larger capitalization companies, therefore the delisting bias  
426 would inflate the apparent historic returns of the small capitalization companies.  
427 Further, researchers have found that the high returns of the small capitalization  
428 group of stocks are driven by a very small fraction of that population.<sup>7</sup> Large  
429 companies perform better than all but a very few small capitalization companies  
430 that earned very high returns. This would also inappropriately bias upward or  
431 even suggest the bare existence of any purported “small company premium”.

432 **Q. DOES THE CAPITAL ASSET PRICING MODEL (CAPM) AND MODERN**  
433 **PORTFOLIO THEORY SUPPORT USE OF A “SMALL COMPANY**  
434 **PREMIUM”?**

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Perspectives is provided and supported by the American Economic Association, and publishes invited contributions.

<sup>6</sup> *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.

<sup>7</sup> *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.

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435 A. No, the use of a “small company premium” clearly conflicts with CAPM and  
436 modern portfolio theory. Application of the “small company premium” at best  
437 represents an attempt to be compensated for “unsystematic risk” which has very  
438 specific meaning in capital markets theory. The market only compensates for  
439 “systematic risk” because “unsystematic risk” is diversified away by the prudent  
440 investor. The difference and importance of distinguishing between systematic  
441 and unsystematic risks is described as follows:

442 The total risk involved in holding a stock is comprised of two parts: the  
443 systematic component and the unsystematic component. The first is due  
444 to overall market risk and cannot be diversified away. The second risk  
445 component, however, is unique to the particular company, being  
446 independent of economic, political and other factors that affect securities  
447 in a systematic manner. By diversification, this risk can be reduced and  
448 even eliminated if diversification is efficient. Therefore, not all of the risk  
449 involved in holding a stock is relevant; part of it can be diversified away.  
450 .... Efficient diversification reduces the total risk of the portfolio to the  
451 point where only systematic risk remains. .... the important risk of a  
452 security is the responsiveness of its return to changes in the return on the  
453 market portfolio, as denoted by its beta. .... For the individual security,  
454 then, the relevant risk is not the standard deviation of the security itself  
455 (total risk), but the marginal effect the security has on the standard  
456 deviation of an efficiently diversified portfolio (systematic risk). As a  
457 result, a security’s expected return should be related to its degree of  
458 systematic risk, not to its degree of total risk.<sup>8</sup>

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

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<sup>8</sup> Financial Management and Policy, James C. Van Horne, Fourth Edition, Prentice-Hall, Inc., 1977, pp.61 – 63 (emphasis added).



462           **ELECTRIC COMPANIES TO ADVOCATE ITS USE TO INCREASE THEIR**  
463           **AUTHORIZED RETURN ON EQUITY?**

464    A.    Yes, I believe it could. For example, in spite of the fact that the Kansas  
465           Corporation Commission has not accepted use of a “small company premium”  
466           each time it has been advocated by local exchange companies in KUSF audit  
467           proceedings, the largest electric utility in Kansas - Westar Energy - has a rate  
468           increase request pending where it has referenced the necessity of adjusting the  
469           DCF and CAPM results for “small” company size.<sup>9</sup> If the Utah Commission  
470           accepts Strata’s request to employ a “small company” or “size” adjustment to the  
471           CAPM results, I believe it would be likely that other jurisdictional utilities in  
472           Utah would also request additional premiums on top of the cost of equity results  
473           indicated by DCF and CAPM. I believe this would be an egregious error because  
474           (as discussed above) by definition the CAPM methodology is designed to  
475           capture and compensate for market-based systematic risk of equity investments.  
476           By definition the CAPM estimation is risk adjusted, and it would be  
477           inappropriate double-recovery to include additional premium on top of that  
478           estimation. The DCF method is also based on market data and estimations  
479           designed to capture and recognize all risks.

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<sup>9</sup> 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](http://www.kcc.state.ks.us)

480 Q. ARE MORE CURRENT RETURN ON EQUITY ESTIMATIONS AVAILABLE  
 481 FOR RURAL TELEPHONE COMPANIES IN STATE UNIVERSAL SERVICE  
 482 FUND PROCEEDINGS?

483 A. Yes. The Kansas Corporation Commission has undertaken regular cost of service  
 484 audits for the rural telephone companies which draw funds from the Kansas  
 485 Universal Service Fund, under the statutory mandate that such support be “cost  
 486 based”. The Commission has undertaken these audits since 1997, and the most  
 487 recent complete list of returns on equity recommended in staff rate of return  
 488 testimony<sup>10</sup> is:

| <u>Testimony<br/>Date</u> | <u>Company</u>             | <u>Docket</u>   | <u>Staff<br/>ROE</u> |
|---------------------------|----------------------------|-----------------|----------------------|
| 10/18/2012                | Gorham Telephone Co.       | 12-GRHT-633-KSF | 10.50%               |
| 12/19/2012                | LaHarpe Telephone Co.      | 12-LHPT-875-AUD | 10.00%               |
| 3/13/2013                 | Craw-Kan Telephone Coop    | 13-CRKT-268-KSF | 10.00%               |
| 5/17/2013                 | Zenda Telephone Co.        | 13-ZENT-065-AUD | 10.00%               |
| 5/23/2013                 | JBN Telephone Co.          | 13-JBNT-437-KSF | 9.75%                |
| 9/24/2013                 | Peoples Telecommunications | 13-PLTT-678-KSF | 9.75%                |
| 2/5/2014                  | Wamego Telecommunications  | 14-WTCT-142-KSF | 9.60%                |
| 9/30/2014                 | S&T Telephone Coop         | 14-S&TT-525-KSF | 9.75%                |
| 1/20/2015                 | Moundridge Telephone Co.   | 15-MRGT-097-AUD | 9.75%                |

489 Two of the cases were fully litigated, and in each case the Commission adopted  
 490 the staff-recommended return on equity, and rate of return. Remaining cases  
 491 were settled by stipulation, however comparison of the staff recommended  
 492 KUSF draw versus the stipulated and Commission-ordered KUSF draw<sup>11</sup> shows

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<sup>10</sup> Each of these testimonies is public record at <http://www.kcc.state.ks.us/>

<sup>11</sup> Each of the Commission decisions is public record at <http://www.kcc.state.ks.us/>

493 that the KCC staff-recommended return on equity, and rate of return was  
 494 utilized in computing the final authorized KUSF draw:

| <u>Company</u>                | <u>Company<br/>Requested<br/>KUSF</u> | <u>Staff<br/>Recommended<br/>KUSF</u> | <u>Commission<br/>Granted<br/>KUSF</u> | <u>Litigated or<br/>Stipulated?</u> |
|-------------------------------|---------------------------------------|---------------------------------------|--|-------------------------------------|
| Gorham Telephone Co.          | \$1,073,777                           | \$543,215                             | \$565,000                              | Stipulated                          |
| LaHarpe Telephone Co.         | \$525,162                             | \$0                                   | \$19,293                               | Litigated                           |
| Craw-Kan Telephone Coop       | \$2,486,822                           | \$1,714,075                           | \$1,714,075                            | Stipulated                          |
| Zenda Telephone Co.           | \$459,850                             | \$193,148                             | \$311,715                              | Stipulated                          |
| JBN Telephone Co.             | \$864,942                             | \$559,332                             | \$559,332                              | Stipulated                          |
| Peoples<br>Telecommunications | \$806,538                             | \$374,945                             | \$374,945                              | Stipulated                          |
| Wamego<br>Telecommunications  | \$4,126,619                           | \$1,869,326                           | \$1,869,326                            | Stipulated                          |
| S&T Telephone Coop            | \$1,620,205                           | \$746,959                             | \$835,923                              | Stipulated                          |
| Moundridge Telephone Co.      | \$725,818                             | \$0                                   | \$0                                    | Litigated, ROE<br>stipulated        |

495 Based on this extensive and direct detailed experience with determining rate of  
 496 return for rural local exchange companies, the KCC has determined returns on  
 497 equity of approximately 10% are currently appropriate for its state universal  
 498 service funding draws. In so doing, arguments in favor of artificially increasing  
 499 the return on equity above that indicated by traditional application of discounted  
 500 cash flow (DCF) and Capital Asset Pricing Model (CAPM) methods, such as  
 501 application of "small company premiums" have been considered and rejected.  
 502 The Commission should use this recent, robust and rigorously determined series  
 503 of returns on equity to support use of a 10% return on equity for computation of  
 504 Strata's draw from the Utah Universal Service Fund. Strata is similarly situated  
 505 with the rural local exchange companies in Kansas. Rural local exchange

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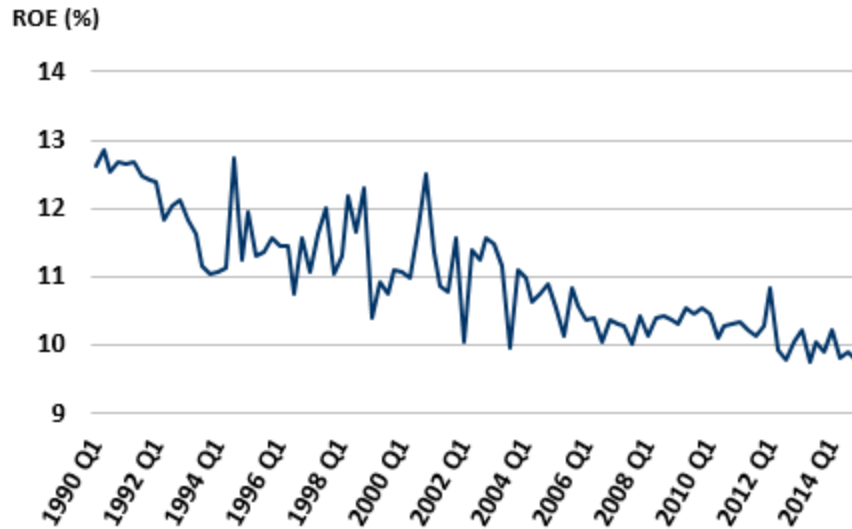
506 companies generally serve rural areas with low population densities, benefit  
507 from low cost borrowing through CoBank and RUS, are organized with multiple  
508 deregulated affiliates which also provide broadband internet access and cable TV  
509 programming, and are deploying Fiber to the Home to support this array of  
510 services. Strata and the rural local exchange companies in Kansas are in the same  
511 businesses and face the same types of risks. It is therefore reasonable for the  
512 Commission to utilize a 10% return on equity based on direct and complete  
513 analysis that is current - much more so than the dated determinations to which  
514 Strata points. Strata's recommended return on equity of 14.01% first of all has no  
515 foundation, but also is clearly not current or justified.

516 **Q. IS A 10% RETURN ON EQUITY CONSISTENT WITH RECENT**  
517 **COMMISSION DETERMINATIONS IN OTHER RECENT UTILITY CASES?**

518 **A.** Yes. Returns on equity authorized by the Commission have declined somewhat  
519 over recent utility cases, from 10% granted to Rocky Mountain Power in Docket  
520 No. 10-035-124, and 9.80% in Docket No. 13-035-184, to 9.85% granted to Questar  
521 Gas Company in Docket No. 13-057-05. Also, a 10% return on equity is  
522 consistent with "Rate Case Summary" information published by the Edison  
523 Electric Institute, which indicates average awarded returns on equity have  
524 trended downward to below 10%, to 9.78% as of the 4<sup>th</sup> quarter of 2014.<sup>12</sup>

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<sup>12</sup><http://www.eei.org/resourcesandmedia/industrydataanalysis/industryfinancialanalysis/QtrlyFinancialUpdates/Pages/default.aspx>



525

526 **Q. IS YOUR RATE OF RETURN RECOMMENDATION CONSISTENT WITH**  
 527 **THE MOST RECENT FINDINGS AND ANALYSIS OF THE FEDERAL**  
 528 **COMMUNICATIONS COMMISSION STAFF?**

529 **A.** Yes. The FCC staff recently produced a comprehensive analysis of appropriate  
 530 rates of return for local exchange carriers.<sup>13</sup> This Report calculates “a zone of  
 531 reasonable WACC estimates ranging from 7.39 percent to 8.72 percent”. My  
 532 recommended 7.50% rate of return is within the FCC zone of reasonableness.

533 **Q. IN YOUR OPINION DOES THIS RECOMMENDED RATE OF RETURN**  
 534 **MAINTAIN STRATA’S FINANCIAL INTEGRITY AND OTHERWISE**  
 535 **PROVIDE A REASONABLE RETURN WHICH APPROPRIATELY**  
 536 **BALANCES COMPANY CONSIDERATIONS AND CONSUMER**  
 537 **INTERESTS?**

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<sup>13</sup> “Prescribing the Authorized Rate of Return: Analysis of Methods for Establishing Just and Reasonable Rates for Local Exchange Carriers”; Wireline Competition Bureau Staff Report; WC Docket No. 10-90; May 16, 2013.

538 A. Yes.

539 Q. **DOES THIS COMPLETE YOUR PREFILED DIRECT TESTIMONY?**

540 A. Yes.