

BEFORE THE PUBLIC SERVICE COMMISSION OF UTAH

In the Matter of Emery Telephone's)	
Application for an Increase in)	Docket No. 15-042-01
Utah Universal Service Fund Support)	
)	Direct Testimony
)	of David Brevitz
)	For the Office of
)	Consumer Services
)	

NON CONFIDENTIAL - REDACTED VERSION

August 14, 2015

Table of Contents

	Page
INTRODUCTION	1
EMERY'S PROPOSED RATE OF RETURN	4
EMERY'S DEPLOYMENT OF FIBER TO THE HOME FOR DEREGULATED SERVICES	18

CONFIDENTIAL

1 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

CONFIDENTIAL

21 as Chief of the Telecommunications Division at the Kansas Corporation
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

CONFIDENTIAL

42 service funds, telephone company rate of return and revenue requirements, and
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 OCS Exhibit 2D-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 Emery Telephone’s (“Emery”) Application for additional funding from the
57 Utah Universal Service Fund (UUSF). In particular I focused on the areas of
58 Emery’s proposed rate of return and appropriate cost allocations associated with
59 Emery’s deployment of Fiber to the Home (FTTH) for deregulated services.

60 EMERY'S PROPOSED RATE OF RETURN

61 **Q. WHAT OVERALL RATE OF RETURN IS PROPOSED BY EMERY IN THIS**
62 **CASE?**

63 A. As stated in the Application at page 3, Emery proposes the use of an overall rate
64 of return of 10.50%, using a “theoretical capital structure of 65% equity and 35%
65 debt (calculated on a basis of a state return on equity of 12.13% and a return on
66 debt of 5.636%).” For the interstate return, Emery uses a rate of 11.45%, “derived
67 from NECA’s Form 492 filing with the FCC on September 30, 2014 for calendar
68 year 2013 pool participants”.¹ For the proposed state return, the capital structure
69 and cost of debt and equity above yield a state return of 9.86%. Mr. Woolsey’s
70 testimony on behalf of Emery states it computes the overall rate of return using
71 the state/interstate weighting process set out in R746-360-8(A)(1), which using
72 the state and interstate costs above yields a proposed overall rate of return of
73 10.50%. Further information on the computation of the proposed rate of return is
74 contained in Mr. Woolsey’s Exhibit 3, which is claimed confidential by Emery.

75 **Q. DO THE COMMISSION’S RULES SET OUT ANY PRINCIPLES OR**
76 **STANDARDS FOR WHAT CONSTITUTES A REASONABLE RATE OF**
77 **RETURN FOR PURPOSES OF THE UUSF?**

¹ Redacted Direct Testimony of Darren Woolsey, at line 157. (“Woolsey Direct”)

78 A. No. However, a reasonable rate of return for UUSF purposes should balance the
79 interests of Utah's consumers that pay into the UUSF with the interests of
80 investors in the specific company that is requesting UUSF funding. A reasonable
81 rate of return should fairly compensate existing investors, maintain the utility's
82 financial integrity, and permit it to attract capital if needed on reasonable terms
83 related to the utility's risk. In particular in this case, it should be noted that
84 Emery is a cooperative in which its "investors" are members who are required to
85 subscribe to basic local service at the minimum and earn "capital credits" in
86 proportion to basic and other services purchased.

87 **Q. IS THE RATE OF RETURN PROPOSED BY EMERY FOR COMPUTATION**
88 **OF ADDITIONAL FUNDS REQUESTED FROM THE UNIVERSAL SERVICE**
89 **FUND PROPERLY BALANCED?**

90 A. No. Emery's proposed rate of return is imbalanced between the interests of the
91 company and the consumers statewide that pay in to the UUSF to support
92 funding such as this. Emery's calculation of the proposed rate of return is flawed
93 in a number of respects, and must be adjusted to provide for a balanced rate of
94 return. In particular, the proposed rate of return does not reflect an optimal
95 "least cost" weighted cost of capital based on reasonable debt leverage that a
96 firm in a competitive marketplace would be required to employ to remain
97 competitive. I recommend on behalf of the Office of Consumer Services that the
98 Commission use an overall rate of return applied to rate base which is no greater

CONFIDENTIAL

113 A. Yes. Emery presently has no long term debt, but proposes to use a cost of debt
114 “that existed with CoBank during the 2013 base year. The debt with CoBank
115 carried a stated rate of 5.64% and was paid off in January 2014.”² Under those
116 circumstances, I consider Emery’s proposed cost of debt for use in computing the
117 overall rate of return in this case to be reasonable.

118 **Q. SHOULD THE COMMISSION ACCEPT EMERY’S PROPOSED**
119 **HYPOTHETICAL CAPITAL STRUCTURE OF 65% EQUITY AND 35% DEBT?**

120 A. No. The excessive reliance upon more costly equity financing in the hypothetical
121 capital structure is imbalanced in favor of Emery’s cooperative member-owners,
122 and against the statewide base of consumers that pays in to support the UUSF.
123 Competitive firms seek to optimize capital structure to provide the lowest overall
124 weighted cost of capital. Equity is more costly than debt, so cheaper debt
125 financing is used by competitive firms to reduce the overall weighted cost of
126 capital. This is done within the constraint that at some point greater debt levels
127 lead to greater risk of the firm’s inability to meet the fixed debt service
128 requirements (default on payment of interest and principle) and financial
129 covenants (i.e., failure to meet interest coverage ratios and debt leverage ratios as
130 periodically calculated), which in turn leads to higher interest rates to recognize
131 that higher risk. Accordingly there are limits to the amount of debt that can be

² Redacted Direct Testimony of Darren Woolsey Direct at line 154.

132 used in a capital structure before the interest rate associated with that debt rises
133 to reflect the increased risk of default. A further factor which affects the ability to
134 incur debt under reasonable rates and conditions is the variability in revenues
135 and cash flows. As a public utility Emery has substantial and stable revenues
136 and cash flows. This stability of revenues and cash flows reduces the risk of
137 failure to meet fixed debt service requirements and financial covenants, and
138 therefore supports the ability to borrow more at lower interest rates reflecting the
139 lower risk. The higher the variability in revenues and cash flows, the higher the
140 risk of failing to meet fixed debt service requirements and financial covenants,
141 which in turn is reflected in higher interest rates on debt. However, Emery's
142 revenues and cash flows are stable, and thus it has ample room to leverage its
143 capital structure and reduce its overall required rate of return. As a public
144 utility, Emery is able to borrow at low cost from entities such as CoBank.
145 Assuming only 35% debt in the capital structure unreasonably and artificially
146 raises the overall rate of return requested by Emery.

147 **Q. HAS THE COMMISSION ENDORSED THE USE OF A HYPOTHETICAL**
148 **CAPITAL STRUCTURE INCLUDING AN ASSUMPTION OF 65% EQUITY?**

149 A. No. The Commission squarely rejected a proposed rule to use this hypothetical
150 capital structure by letter dated October 27, 2008. The Commission questioned
151 the need for the proposed rule, and its "potential impact in ratemaking settings".
152 This case is a perfect example of why using such a rule, or 65% equity

153 assumption has an impact in ratemaking settings that are contrary to the public
154 interest.

155 **Q. WHAT LEVERAGE RATIOS EXIST AMONG TELEPHONE COMPANIES**
156 **THAT ARE CONSIDERED COMPARABLE FOR COST OF CAPITAL**
157 **ANALYSIS IN RATEMAKING PROCEEDINGS?**

158 A. The following debt ratios for companies often and regularly used as “comparable
159 companies” for purposes of rate of return analysis for rural telephone companies
160 in state universal service fund proceedings are drawn from Value-Line and
161 company SEC Form 10-K reports. The debt ratios are more than double the 35%
162 debt ratio proposed to be used by Emery.

% Long Term Debt to total Capital		
	<u>2013</u>	<u>2014</u>
Alaska Communications (ALSK)	76.80%	75.60%
CenturyLink (CTL)	54.00%	57.30%
Consolidated Communications (CNSL)	89.00%	81.00%
Frontier Communications (FTR)	66.00%	72.17%
Shenandoah Telecom (SHEN)	48.91%	43.79%
Windstream (WIN)	91.10%	97.25%
Average	70.97%	71.19%

163

164 **Q. WHAT HYPOTHENTICAL CAPITAL STRUCTURE DO YOU RECOMMEND**
165 **THAT THE COMMISSION USE IN THIS PROCEEDING?**

166 A. I recommend that a 50% equity and 50% debt capital structure be utilized in this
167 proceeding, and that capital structure is included in my recommendation on rate
168 of return. While the debt ratios of comparable companies would justify use of a
169 70% debt ratio, to be more conservative I recommend 50%.

CONFIDENTIAL

170 Q. DOES USE OF A HYPOTHETICAL CAPITAL STRUCTURE FOR
171 DETERMINATION OF A REASONABLE RATE OF RETURN OBLIGE
172 EMERY TO INCUR NEW DEBT?

173 A. No. Presently Emery has no debt, so its actual capital structure cannot be used to
174 determine a reasonable rate of return. Just as Emery's proposed use of a
175 hypothetical capital structure including 35% debt financing does not oblige the
176 company to incur debt, neither does the hypothetical capital structure I
177 recommend oblige Emery to incur debt. The decision of whether or not Emery
178 should incur debt remains the decision of it and its members.

179 Q. SHOULD THE COMMISSION ACCEPT AND USE EMERY'S PROPOSED
180 11.45% INTERSTATE RATE OF RETURN?

181 A. No. Emery states this interstate rate of return is "derived from NECA's Form 492
182 filing with the FCC on September 30, 2014 for calendar year 2013 pool
183 participants".³ Emery provided this Form 492 in response to OCS 2.4, and
184 labeled it as "confidential", but has since indicated this labeling was
185 "inadvertent".⁴ The document itself contains no claim of confidentiality from
186 NECA, who files it at the FCC on behalf of the NECA pool participants, and the
187 form is a public record at the FCC. Therefore, I will refer to the document
188 directly. Review of NECA's Rate of Return Report on FCC Form 492 indicates

³ Redacted Direct Testimony of Darren Woolsey, at line 157.

⁴ This document is attached as OCS Exhibit 2D-2.

189 there are several calculated rates of return, and that Emery has selected the
 190 highest rate of return depicted on the Report. The Form contains rate of return
 191 for Switched Traffic Sensitive, Special Access, Common Line, and Interstate
 192 Access which is a total of Special Access, Common Line and Switched Traffic
 193 Sensitive, as displayed in the following table:

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

194

195 The appropriate rate of return to use is the Interstate Access return – 9.40%,
 196 which is the rate of return for all interstate access. This is the full interstate
 197 return for all elements, not just one selected rate element (Common Line). The
 198 full interstate access rate of return is the appropriate rate of return to use for the
 199 interstate jurisdictional component of the weighted rate of return calculation
 200 under the Commission’s rules. It is the rate of return I have used in my
 201 computation of overall rate of return. The Commission should not permit
 202 Emery to select the highest rate of return that appears on the Form 492, which is
 203 for only one subset of the interstate jurisdiction – “Common Line”.

204 **Q. IS EVEN THIS INTERSTATE RATE OF RETURN TOO HIGH FOR USE IN**
 205 **DETERMINATION OF UUSF FUNDING?**

CONFIDENTIAL

206 A. Yes. Even the overall interstate access rate of return is unreasonably high, as
207 compared to the computation of the state portion of the weighted rate of return.
208 However, it use appears to be required by the Commission's rules. An overall
209 rate of return at the level indicated by the state rate of return computation would
210 be appropriate on a total company basis. In fact the separate development of
211 state and interstate rates of return is inconsistent with the "Total Company"
212 requirement of the Commission's rules. A consistent approach would be to take
213 total company operations - state and interstate - and apply a total company rate
214 of return developed to apply on an overall basis. Emery does not have different
215 costs of capital in the marketplace depending on the state or interstate service
216 jurisdiction. Emery has a single cost of capital that exists for its combined total
217 company operations. The weighted state/interstate rate of return serves to
218 artificially increase the rate of return for UUSF funding. Calculating the impact
219 of the use of the unreasonably high interstate return proposed by Emery in this
220 case under the rule - 10.50% -- versus applying the state rate of return of 7.82% as
221 a total company rate of return, yields a dollar difference of approximately
222 \$194,787 versus Emery's request of \$739,293. Fully 26% of Emery's UUSF request
223 can be attributed to use of an unreasonably high rate of return derived from
224 weighting state and interstate, and using 11.45% as the interstate return
225 assumption.

226 Q. **SHOULD THE COMMISSION USE AND ACCEPT EMERY'S PROPOSED**
227 **12.13% INTRASTATE RETURN ON EQUITY?**

228 A. No. Emery's only support for this requested return on equity is in footnote 2 of
229 the Woolsey Direct, which states "Emery's requested cost of equity mirrors the
230 cost of equity used and approved by the Commission in other recent UUSF
231 cases." This vague and non-specific assertion leaves out all details including
232 which cases, and how long ago did those cases occur. Emery does not state or
233 claim whether these returns on equity were specifically approved by the
234 Commission in a contested proceeding against other alternatives, or if these were
235 requested returns on equity that were not specifically addressed or contested but
236 the case was subject to an overall settlement. Return on equity by its nature
237 changes over time, and the more dated the cases in which this 12.13% return on
238 equity was purportedly determined, the less likely it is to be an appropriate rate
239 of return for use in the current case.

240 Q. **ARE MORE CURRENT RETURN ON EQUITY ESTIMATIONS AVAILABLE**
241 **FOR RURAL TELEPHONE COMPANIES IN STATE UNIVERSAL SERVICE**
242 **FUND PROCEEDINGS?**

243 A. Yes. The Kansas Corporation Commission has undertaken regular cost of service
244 audits for the rural telephone companies which draw funds from the Kansas
245 Universal Service Fund, under the statutory mandate that such support be "cost
246 based". The Commission has undertaken these audits since 1997, and the most

247 recent complete list of returns on equity recommended in staff rate of return

248 testimony⁵ is:

<u>Testimony Date</u>	<u>Company</u>	<u>Docket</u>	<u>Staff 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%

249 Two of the cases were fully litigated, and in each case the Commission adopted
 250 the staff-recommended return on equity, and rate of return. Remaining cases
 251 were settled by stipulation, however comparison of the staff recommended
 252 KUSF draw versus the stipulated and Commission-ordered KUSF draw⁶ shows
 253 that the KCC staff-recommended return on equity, and rate of return was
 254 utilized in computing the final authorized KUSF draw:

<u>Company</u>	<u>Company Requested KUSF</u>	<u>Staff Recommended KUSF</u>	<u>Commission Granted KUSF</u>	<u>Litigated or 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

⁵ Each of these testimonies is public record at <http://www.kcc.state.ks.us/>

⁶ Each of the Commission decisions is public record at <http://www.kcc.state.ks.us/>

Peoples Telecommunications	\$806,538	\$374,945	\$374,945	Stipulated
Wamego 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 stipulated

255 Based on this extensive and direct detailed experience with determining rate of
256 return for rural local exchange companies, the KCC has determined returns on
257 equity of approximately 10% are currently appropriate for its state universal
258 service funding draws. In so doing, arguments in favor of artificially increasing
259 the return on equity above that indicated by traditional application of discounted
260 cash flow (DCF) and Capital Asset Pricing Model (CAPM) methods, such as
261 application of "small company premiums" have been considered and rejected.
262 The Commission should use this recent, robust and rigorously determined series
263 of returns on equity to support use of a 10% return on equity for computation of
264 Emery's draw from the Utah Universal Service Fund. Emery is similarly situated
265 with the rural local exchange companies in Kansas. Rural local exchange
266 companies generally serve rural areas with low population densities, benefit
267 from low cost borrowing through CoBank and RUS, are organized with multiple
268 deregulated affiliates which also provide broadband internet access and cable TV
269 programming, and are deploying Fiber to the Home to support this array of
270 services. Emery and the rural local exchange companies in Kansas are in the
271 same businesses and face the same types of risks. It is therefore reasonable for the

CONFIDENTIAL

272 Commission to utilize a 10% return on equity based on direct and complete
273 analysis that is current - much more so than the dated determinations to which
274 Emery points. Emery's recommended return on equity of 12.13% is clearly not
275 current or justified.

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

278 A. Yes. Returns on equity authorized by the Commission have declined somewhat
279 over recent utility cases, from 10% granted to Rocky Mountain Power in Docket
280 No. 10-035-124, and 9.80% in Docket No. 13-035-184, to 9.85% granted to Questar
281 Gas Company in Docket No. 13-057-05. Also, a 10% return on equity is
282 consistent with "Rate Case Summary" information published by the Edison
283 Electric Institute, which indicates average awarded returns on equity have
284 trended downward to below 10%, as of the 4th quarter of 2014.

285 **Q. DID EMERY INCLUDE A "SMALL COMPANY PREMIUM" IN ITS**
286 **REQUESTED RETURN ON EQUITY?**

287 A. The sparse two lines of support for Emery's requested 12.13% return on equity
288 does not indicate inclusion of any "small company premium". In any event, the
289 Commission should not accept or include a "small company premium" on top of
290 an appropriately determined return on equity. There is no basis for such a
291 premium as is sometimes sought to be applied to rate of return regulated rural
292 telephone companies.

CONFIDENTIAL

293 Q. SHOULD THE COMMISSION CONSIDER WHETHER EMERY'S LEVEL OF
294 ACCUMULATED CAPITAL CREDITS IS AN EXCESSIVE EQUITY
295 COMPONENT OF ITS CAPITAL STRUCTURE?

296 A. I do not believe it is necessary at this time to consider whether the capital credits
297 portion of Emery's total equity is excessive for purposes of computing overall
298 rate of return. The use of the hypothetical capital structure (50% equity/50%
299 debt) as proposed in this testimony makes it unnecessary to address this issue in
300 this case because it mitigates the impact of any disputed capital credits.

301 Q. IS YOUR RATE OF RETURN RECOMMENDATION CONSISTENT WITH
302 THE MOST RECENT FINDINGS AND ANALYSIS OF THE FEDERAL
303 COMMUNICATIONS COMMISSION STAFF?

304 A. Yes. The FCC staff recently produced a comprehensive analysis of appropriate
305 rates of return for local exchange carriers.⁷ This Report calculates "a zone of
306 reasonable WACC estimates ranging from 7.39 percent to 8.72 percent". My
307 recommended 8.45% rate of return is toward the upper end of the FCC zone of
308 reasonableness.

309 Q. IN YOUR OPINION DOES THIS RECOMMENDED RATE OF RETURN
310 MAINTAIN EMERY'S FINANCIAL INTEGRITY AND OTHERWISE
311 PROVIDE A REASONABLE RETURN WHICH APPROPRIATELY

⁷ "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.

312 **BALANCES COMPANY CONSIDERATIONS AND CONSUMER**
313 **INTERESTS?**

314 A. Yes.

315 EMERY'S DEPLOYMENT OF FIBER TO THE HOME FOR DEREGULATED SERVICES

316 **Q. HAS EMERY UNDERTAKEN A PROGRAM TO DEPLOY FIBER TO THE**
317 **HOME (FTTH), AND REFLECTED THOSE COSTS IN THIS APPLICATION?**

318 A. Yes. Emery states the proposed increase in rate base in this UUSF filing "results
319 primarily from FTTH construction", and the increase in depreciation expense is
320 "due to significant plant investment made in 2013 and 2014." "This continued
321 higher level of investment (and corresponding depreciation) will continue as the
322 FTTH project continues in Emery." ⁸ FTTH deployment replaces existing local
323 loops furnished using copper plant.

324 **Q. HOW IS EMERY FUNDING THE FTTH CONSTRUCTION PROGRAM?**

325 A. Emery appears to be funding the FTTH construction program through internally
326 generated funds, which include the rates it charges for all services - regulated
327 and nonregulated, as well as UUSF disbursements.

⁸ See Exhibit 2D-3, Emery Response to OCS Data Request Question 2.3.

328 Q. WHAT IS YOUR UNDERSTANDING OF THE DEFINITION AND
329 IMPORTANCE OF THE TERM "BASIC SERVICE" IN UTAH?

330 A. Similar if not identical to other states, in Utah "Basic Telephone Service" is
331 equivalent to local exchange service which "means the provision of telephone
332 lines to customers with the associated transmission of two-way interactive,
333 switched voice communication" as defined in Utah Code Annotated Section 54-
334 8b-2 (10). Based on universal service policy considerations, basic service is
335 supported by the Utah Universal Service Fund in order to maintain affordability
336 of this service to "all" consumers. The UUSF is designed to "promote equitable
337 cost recovery of basic telephone through the imposition of just and reasonable
338 rates for telecommunications access and usage" per Utah Code Annotated
339 Section 54-8b-15 (6) (a). The Commission's rules state the purpose of the fund is
340 "to promote equitable cost recovery and universal service by ensuring that
341 customers have access to basic telecommunications service at just, reasonable
342 and affordable rates".

343 Q. DOES FTTH DEPLOYMENT SUPPORT PROVISION OF ADDITIONAL
344 SERVICES BEYOND BASIC VOICE TELEPHONE SERVICE, FUNDING OF
345 WHICH IS THE SUBJECT OF THIS PROCEEDING?

346 A. Yes. FTTH provides a vast broadband capacity which supports multiple
347 services. In contrast to copper plant, FTTH local distribution facilities supports

348 multiple services, at least two of which are nonregulated services. Copper local
349 distribution plant was generally designed and placed to support provision of
350 voice services, and as it later developed, this plant could also support dial up
351 internet access via modem. The copper plant was later modified and investment
352 was added to it (splitters and DSLAMs) to permit the provision of DSL (or
353 Digital Subscriber Line) over copper facilities, within certain distance limitations.
354 FTTH is designed to support Internet Protocol (IP) networking and service
355 applications including basic voice, IPTV, and broadband internet access. FTTH
356 by its nature enables major new service applications beyond voice services to
357 ride the network, as compared to previous copper based, circuit switched
358 telephone networks. Under Emery's current organization, Emery provides basic
359 voice services, and its affiliates – Emery Telecom Video, LLC and Emery
360 Telecommunications & Video, Inc. – provide cable TV/internet and broadband
361 internet access offerings (respectively) on a nonregulated basis using Emery's
362 FTTH network. Thus the FTTH network is jointly used by regulated and
363 nonregulated services and perhaps more importantly, by regulated and
364 nonregulated entities. As described in more detail below, Utah statutes and PSC
365 rules limit the use of UUSF funds to the support of basic voice service.⁹

⁹ Where I refer to Utah statutes and Commission rules in this testimony, it is based on my understanding from a plain reading of the words of the statutes and Commission rules, and it does not constitute a legal opinion, which I am not qualified to render.

366 Therefore, only the basic voice portion of the FTTH network may be supported
367 by Emery's regulated rates and its draw from the Utah Universal Service Fund.
368 Thus some allocation or appropriate division of FTTH facilities between
369 regulated basic telephone service and nonregulated services and entities is
370 required.

371 **Q. ARE THERE ALTERNATIVES TO ACHIEVE AN APPROPRIATE DIVISION**
372 **OF FTTH FACILITIES BETWEEN REGULATED AND NONREGULATED**
373 **SERVICES AND ENTITIES?**

374 A. Yes. In general, costs and investments can be allocated from Emery to the
375 appropriate affiliates using the FTTH network to provide their services, or
376 revenues from charges to those affiliates can be shown on Emery's books. An
377 equivalent result can be achieved using either method. For example under a cost
378 allocation approach, there should be a reasonable allocation of capital costs and
379 operating expenses from Emery to the affiliates (or Emery should be reimbursed
380 for these amounts by affiliates through a revenue approach. Consistent with the
381 FCC's Affiliate Transaction Rules and CAM requirements as explained by Mr.
382 Ostrander, revenue responsibility for the FTTH assets is therefore divided among
383 the entities which use and benefit from placement of the FTTH assets, and no
384 more than a reasonable share of the facilities costs is recovered from the UUSF
385 for basic voice service. In the alternative rate base and expenses can be explicitly
386 allocated out of revenue requirements used for determination of UUSF funding.

CONFIDENTIAL

387 Q. **WHAT DO YOU MEAN BY THE USE OF THE TERM "AFFILIATE" ABOVE?**

388 A. Throughout this testimony I use the term "affiliate" to refer to any of the several
389 entities (Emery Telcom HC; Carbon/Emery Telcom; Hanksville Telcom; Emery
390 Telecommunications & Video; Emery Telcom Long Distance; and Emery Telcom
391 Video LLC) which are related to Emery Telecom, as indicated in Emery's audited
392 financials at page 9. There does not appear to be any meaningful separation or
393 independence regarding planning decisions, such as FTTH, between these
394 affiliates. There can be no doubt that the FTTH project was planned and
395 undertaken by Emery with full knowledge of its benefit for Emery's affiliates, or
396 perhaps even planned with these affiliates as the primary intended beneficiaries.
397 Please see Mr. Ostrander's testimony for further discussion on the term
398 "affiliate".

399 Q. **WHAT ARE THE THEORETICAL ALLOCATION ALTERNATIVES TO**
400 **ADDRESS DIVISION OF JOINT FTTH COSTS BETWEEN REGULATED**
401 **AND DEREGULATED ENTITIES AND SERVICES?**

402 A. If markets for all the services were competitive, then the joint costs would be
403 allocated by market forces. The services with the greatest demand elasticity
404 would bear relatively little of the joint costs, while services with the least demand
405 elasticity would bear relatively more of the joint costs. But since there are not
406 many buyers and many sellers of FTTH capacity and downstream services
407 facilitated by FTTH, the Commission cannot rely upon market forces to

CONFIDENTIAL

408 accomplish a reasonable allocation of joint FTTH costs between basic voice
409 services and the other nonregulated services.

410 One alternative is to allocate based on the relative capacity use of the fiber by the
411 three services enabled by FTTH – basic voice, broadband internet access, and
412 cable TV. In theory, this would be most appropriate since the allocation of the
413 costs should follow the capacity use of the FTTH facilities. Basic voice service
414 uses a very minimal portion of the vast capacity of the FTTH facilities, on the
415 order of 3-5%. So in theory, it would be appropriate for the Commission to
416 allocate 95% of the cost of the FTTH distribution network to nonregulated
417 services, and only 5% of the costs to basic service and the UUSF.

418 Another alternative is the “alternative cost avoidance” approach. The aim of
419 constructing jointly used facilities to provide multiple purposes is to achieve the
420 economies of joint costs. “Since the aim in combining multiple purposes in a
421 series of structures is the savings to be achieved, it is also possible to use the ratio
422 in which these higher expenditures are avoided by joint action as a basis for
423 allocating joint costs.”¹⁰ Construction of the system of dams and power
424 production facilities by the Tennessee Valley Authority required just such a cost
425 allocation. “Congress directed that the TVA set down on its books what

¹⁰ “Those Joint TVA Costs”; by Martin G. Glaeser; Public Utilities Fortnightly, August 31, 1939, at page 267.

426 appeared to the Board to be the proper proportions of the total investment
427 attributable severally to power, to navigation, and to flood control. Of the total
428 flood control, navigation and power investment, approximately 68 per cent has
429 been allocated to power, 15 per cent to navigation, and 17 per cent to flood
430 control.”¹¹ The amount of investment allocated to power had obvious
431 consequences for rates charged for electricity by TVA, so this allocation
432 determination was of no small consequence to TVA and the consumers who
433 obtain their electricity from TVA. Similarly, the amount of FTTH investment
434 allocated to basic voice service, and hence the UUSF is of no small consequence
435 to consumers who pay to fund the UUSF. The “alternative cost avoidance”
436 approach would be applied in this instance by estimating the lowest alternative
437 cost by which “substantially the same quantity and quality of service for each
438 separate function [basic voice, broadband internet access, and cable TV] can be
439 obtained.”¹² Since the fiber optic loop plant is the largest portion of local
440 exchange plant investment, and would be used for each of the services, the
441 allocation of joint FTTH costs would approximate one third to basic voice service
442 (in the instance of three services being analyzed), or one half to basic voice
443 service in the instance of broadband internet access and cable TV being analyzed

¹¹ TVA – Democracy on the March; by David E. Lilienthal, Harper & Brothers, 1953, at page 46.

¹² “Those Joint TVA Costs”; *Id.*

444 in combination. The allocation of joint FTTH costs would be at least somewhat
445 different if the lowest alternative cost means of providing basic voice service at
446 “the same quantity and quality of service” was using existing copper loop plant,
447 or perhaps a fixed wireless approach.

448 Mr. Ostrander has used an allocation of 50% based on the concept of “alternative
449 cost avoidance” explained above.

450 **Q. DOES SUBSTANTIAL ALLOCATION OF FTTH COSTS TO EMERY**
451 **AFFILIATES INDICATE A CHALLENGE TO EMERY’S BUSINESS**
452 **DECISION TO DEPLOY AN FTTH NETWORK?**

453 A. Absolutely not. I do not take issue with Emery’s decision to pursue FTTH
454 deployment. However, Emery’s Application in this case assumes recovery of
455 essentially all of the cost of the FTTH network from the UUSF and basic voice
456 services. This is clearly an inappropriate division of costs between regulated and
457 nonregulated services and entities, and one which the Commission should not
458 accept.

459 **Q. IS IT PERMISSIBLE FOR A REGULATED ENTITY TO PAY COSTS ON**
460 **BEHALF OF AN NONREGULATED ENTITY?**

461 A. No. This would be “cross-subsidization” where costs of a nonregulated line of
462 business are improperly assigned to regulated services. For valid policy reasons,

463 such cross subsidization is prohibited by Utah Code Annotated Section 54-8b-6,
464 “Prohibition on subsidization of telecommunications services”, which states

465 A telecommunications corporation providing intrastate public
466 telecommunications services may not subsidize its intrastate
467 telecommunications services which are exempted from regulation or
468 offered pursuant to a price list or competitive contract under authority of
469 this chapter with proceeds from its other intrastate telecommunications
470 services not so exempted or made subject to a price list or competitive
471 contract.

472 Part 47, Section 254(k) of the US Code requires that “the States, with respect to
473 intrastate services, shall establish any necessary cost allocation rules, accounting
474 safeguards, and guidelines to ensure that service included in the definition of
475 universal service bear no more than a reasonable share of the joint and common
476 costs of facilities used to provide those services.”

477 **Q. DOES SECTION 254(k) OF THE FEDERAL TELECOMMUNICATIONS ACT**
478 **SUPPORT ALLOCATION OF COST RESPONSIBILITY FOR FTTH**
479 **FACILITIES BETWEEN REGULATED AND DEREGULATED SERVICES**
480 **(BASIC SERVICE AND NON-REGULATED SERVICES SUCH AS**
481 **BROADBAND INTERNET ACCESS AND CABLE TV), AND REGULATED**
482 **AND DEREGULATED ENTITIES?**

483 **A.** Yes. Failing to allocate cost responsibility in this fashion would leave basic voice
484 services bearing “more than a reasonable share of the joint and common costs of
485 facilities used to provide those services”. This is not a legal opinion as I am not

486 an attorney, but is based on a plain reading of the words of Section 254(k) of the
487 Federal Telecommunications Act as contained in the U.S. Code.

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

489 **A. Yes.**