Witness OCS – 2D Brevitz

BEFORE THE PUBLIC SERVICE COMMISSION OF UTAH

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

NON-CONFIDENTIAL – REDACTED VERSION

August 21, 2015

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1 <u>INTRODUCTION</u>

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 Services9 (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

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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

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 Exhibit OCS 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 Carbon/Emery Telcom's ("Carbon/Emery") Application for additional

- funding from the Utah Universal Service Fund (UUSF). In particular I focused
- 58 on the areas of Carbon/Emery's proposed rate of return and appropriate cost
- 59 allocations associated with Carbon/Emery's deployment of Fiber to the Home
- 60 (FTTH) for deregulated services.

57

61 <u>CARBON/EMERY'S PROPOSED RATE OF RETURN</u>

62 Q. WHAT OVERALL RATE OF RETURN IS PROPOSED BY CARBON/EMERY63 IN THIS CASE?

64 A. As stated in the Application at page 3, Carbon/Emery proposes the use of an 65 overall rate of return of 10.50%, using a "theoretical capital structure of 65% 66 equity and 35% debt (calculated on a basis of a state return on equity of 12.13% 67 and a return on debt of 5.636%)." For the interstate return, Carbon/Emery uses a 68 rate of 11.45%, "derived from NECA's Form 492 filing with the FCC on 69 September 30, 2014 for calendar year 2013 pool participants".¹ For the proposed 70 state return, the capital structure and cost of debt and equity above yield a state 71 return of 9.86%. Mr. Woolsey's testimony on behalf of Carbon/Emery states it 72 computes the overall rate of return using the state/interstate weighting process 73 set out in R746-360-8(A)(1), which using the state and interstate costs above 74 yields a proposed overall rate of return of 10.50%. Further information on the 75 computation of the proposed rate of return is contained in Mr. Woolsey's Exhibit 76 3, which entire exhibit is claimed confidential by Carbon/Emery. 77 Q. DO THE COMMISSION'S RULES SET OUT ANY PRINCIPLES OR 78 STANDARDS FOR WHAT CONSTITUTES A REASONABLE RATE OF 79 **RETURN FOR PURPOSES OF THE UUSF?**

¹ Redacted Direct Testimony of Darren Woolsey, at line 176. ("Woolsey Direct")

80	А.	No. However, a reasonable rate of return for UUSF purposes should balance the
81		interests of Utah's consumers that pay into the UUSF with the interests of
82		investors in the specific company that is requesting UUSF funding. A reasonable
83		rate of return should fairly compensate existing investors, maintain the utility's
84		financial integrity, and permit it to attract capital if needed on reasonable terms
85		related to the utility's risk.
86	Q.	IS THE RATE OF RETURN PROPOSED BY CARBON/EMERY FOR
87		COMPUTATION OF ADDITIONAL FUNDS REQUESTED FROM THE
88		UNIVERSAL SERVICE FUND PROPERLY BALANCED?
89	A.	No. Carbon/Emery's proposed rate of return is imbalanced between the
90		interests of the company and the consumers statewide that pay in to the UUSF to
91		support funding such as this. Carbon/Emery's calculation of the proposed rate
92		of return is flawed in a number of respects, and must be adjusted to provide for a
93		balanced rate of return. In particular, the proposed rate of return does not reflect
94		an optimal "least cost" weighted cost of capital based on reasonable debt
95		leverage that a firm in a competitive marketplace would be required to employ
96		to remain competitive. I recommend on behalf of the Office of Consumer
97		Services that the Commission use an overall rate of return applied to rate base
98		which is no greater than [BEGIN CONFIDENTIAL] [END
99		CONFIDENTIAL] to compute any universal service fund payment in this case.

100 The computation of this proposed overall rate of return is show in the tables

101 below, with following analysis and support.

102 [BEGIN CONFIDENTIAL]



- 111 be reasonable for use in this case.
- 112 Q. HAS CARBON/EMERY PROPOSED TO USE A REASONABLE COST OF
- 113 **DEBT?**

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114	A.	Yes. Carbon/Emery presently has no long term debt, but proposes to use a cost
115		of debt "that existed with CoBank during the 2013 base year. The debt with
116		CoBank carried a stated rate of 5.64% and was paid off in January 2014." ² Under
117		those circumstances, I consider Carbon/Emery's proposed cost of debt for use in
118		computing the overall rate of return in this case to be reasonable.
119	Q.	SHOULD THE COMMISSION ACCEPT CARBON/EMERY'S PROPOSED
120		HYPOTHETICAL CAPITAL STRUCTURE OF 65% EQUITY AND 35% DEBT?
121	A.	No. The excessive reliance upon more costly equity financing in the hypothetical
122		capital structure is imbalanced in favor of Carbon/Emery, and against the
123		statewide base of consumers that pays in to support the UUSF. Competitive
124		firms seek to optimize capital structure to provide the lowest overall weighted
125		cost of capital. Equity is more costly than debt, so cheaper debt financing is used
126		by competitive firms to reduce the overall weighted cost of capital. This is done
127		within the constraint that at some point greater debt levels lead to greater risk of
128		the firm's inability to meet the fixed debt service requirements (default on
129		payment of interest and principle) and financial covenants (i.e., failure to meet
130		interest coverage ratios and debt leverage ratios as periodically calculated),
131		which in turn leads to higher interest rates to recognize that higher risk.
132		Accordingly there are limits to the amount of debt that can be used in a capital

² Redacted Direct Testimony of Darren Woolsey at line 173.

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133		structure before the interest rate associated with that debt rises to reflect the
134		increased risk of default. A further factor which affects the ability to incur debt
135		under reasonable rates and conditions is the variability in revenues and cash
136		flows. As a public utility Carbon/Emery has substantial and stable revenues and
137		cash flows. This stability of revenues and cash flows reduces the risk of failure to
138		meet fixed debt service requirements and financial covenants, and therefore
139		supports the ability to borrow more at lower interest rates reflecting the lower
140		risk. The higher the variability in revenues and cash flows, the higher the risk of
141		failing to meet fixed debt service requirements and financial covenants, which in
142		turn is reflected in higher interest rates on debt. However, Carbon/Emery's
143		revenues and cash flows are stable, and thus it has ample room to leverage its
144		capital structure and reduce its overall required rate of return. As a public
145		utility, Carbon/Emery is able to borrow at low cost from entities such as
146		CoBank. Assuming only 35% debt in the capital structure unreasonably and
147		artificially raises the overall rate of return requested by Carbon/Emery.
148	Q.	HAS THE COMMISSION ENDORSED THE USE OF A HYPOTHETICAL
149		CAPITAL STRUCTURE INCLUDING AN ASSUMPTION OF 65% EQUITY?
150	A.	No. The Commission squarely rejected a proposed rule to use this hypothetical
151		capital structure by letter dated October 27, 2008. The Commission questioned
152		the need for the proposed rule, and its "potential impact in ratemaking settings".
153		This case is a perfect example of why using such a rule, or 65% equity

assumption has an impact in ratemaking settings that are contrary to the publicinterest.

156 Q. WHAT LEVERAGE RATIOS EXIST AMONG TELEPHONE COMPANIES

- 157 THAT ARE CONSIDERED COMPARABLE FOR COST OF CAPITAL
- 158 ANALYSIS IN RATEMAKING PROCEEDINGS?
- 159 A. The following debt ratios for companies often and regularly used as "comparable
- 160 companies" for purposes of rate of return analysis for rural telephone companies
- 161 in state universal service fund proceedings are drawn from Value-Line and
- 162 company SEC Form 10-K reports. The debt ratios are more than double the 35%
- 163 debt ratio proposed to be used by Carbon/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%

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165 Q. WHAT HYPOTHENTICAL CAPITAL STRUCTURE DO YOU RECOMMEND

166 THAT THE COMMISSION USE IN THIS PROCEEDING?

167 A. I recommend that a 50% equity and 50% debt capital structure be utilized in this

168 proceeding, and that capital structure is included in my recommendation on rate

- 169 of return. While the debt ratios of comparable companies would justify use of a
- 170 70% debt ratio, to be more conservative I recommend 50%.

171	Q.	DOES USE OF A HYPOTHETICAL CAPITAL STRUCTURE FOR
172		DETERMINATION OF A REASONABLE RATE OF RETURN OBLIGE
173		CARBON/EMERY TO INCUR NEW DEBT?
174	A.	No. Presently Carbon/Emery has no debt, so its actual capital structure cannot
175		be used to determine a reasonable rate of return. Just as Carbon/Emery's
176		proposed use of a hypothetical capital structure including 35% debt financing
177		does not oblige the company to incur debt, neither does the hypothetical capital
178		structure I recommend oblige Carbon/Emery to incur debt. The decision of
179		whether or not Carbon/Emery should incur debt remains the decision of its
180		Board and management.
181	Q.	SHOULD THE COMMISSION ACCEPT AND USE CARBON/EMERY'S
182		PROPOSED 11.45% INTERSTATE RATE OF RETURN?
183	A.	No. Carbon/Emery states this interstate rate of return is "derived from NECA's
184		Form 492 filing with the FCC on September 30, 2014 for calendar year 2013 pool
185		participants". ³ Carbon/Emery provided this Form 492 in response to OCS 2.4,
186		and labeled it as "confidential", but has since indicated this labeling was
187		"inadvertent". ⁴ The document itself contains no claim of confidentiality from
188		NECA, who files it at the FCC on behalf of the NECA pool participants, and the
189		form is a public record at the FCC. Therefore, I will refer to the document

 ³ Redacted Direct Testimony of Darren Woolsey, at line 176.
 ⁴ This document is attached as OCS Exhibit 2D-2.

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190	directly. Review of NECA's Rate of Return Report on FCC Form 492 indicates
191	there are several calculated rates of return, and that Carbon/Emery has selected
192	the highest rate of return depicted on the Report. The Form contains rate of
193	return for Switched Traffic Sensitive, Special Access, Common Line, and
194	Interstate Access which is a total of Special Access, Common Line and Switched
195	Traffic Sensitive, as displayed in the following table:

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

196

197 The appropriate rate of return to use is the Interstate Access return – 9.40%, 198 which is the rate of return for all interstate access. This is the full interstate 199 return for all elements, not just one selected rate element (Common Line). The 200 full interstate access rate of return is the appropriate rate of return to use for the 201 interstate jurisdictional component of the weighted rate of return calculation 202 under the Commission's rules. It is the rate of return I have used in my 203 computation of overall rate of return. The Commission should not permit 204 Carbon/Emery to select the highest rate of return that appears on the Form 492, 205 which is for only one subset of the interstate jurisdiction - "Common Line". 206 Carbon/Emery also has Switched Traffic Sensitive and Special Access services in 207 the interstate jurisdiction.

208 Q. IS EVEN THIS INTERSTATE RATE OF RETURN TOO HIGH FOR USE IN209 DETERMINATION OF UUSF FUNDING?

210 А. Yes. Even the overall interstate access rate of return is unreasonably high, as 211 compared to the computation of the state portion of the weighted rate of return. 212 However, it use appears to be required by the Commission's rules. An overall 213 rate of return at the level indicated by the state rate of return computation would 214 be appropriate on a total company basis. In fact the separate development of 215 state and interstate rates of return is inconsistent with the "Total Company" 216 requirement of the Commission's rules. A consistent approach would be to take 217 total company operations - state and interstate - and apply a total company rate 218 of return developed to apply on an overall basis. Carbon/Emery does not have 219 different costs of capital in the marketplace depending on the state or interstate 220 service jurisdiction. Carbon/Emery has a single cost of capital that exists for its 221 combined total company operations. The weighted state/interstate rate of return 222 serves to artificially increase the rate of return for UUSF funding. Calculating the 223 impact of the use of the unreasonably high interstate return proposed by 224 Carbon/Emery in this case under the rule – 10.50% -- versus applying the state 225 rate of return of 7.82% as a total company rate of return, yields a dollar difference 226 of approximately \$289,127 versus Carbon/Emery's request of \$816,909. Fully 227 35% of Carbon/Emery's UUSF request can be attributed to use of an

228		unreasonably high rate of return derived from weighting state and interstate,
229		and using 11.45% as the interstate return assumption.
230	Q.	SHOULD THE COMMISSION USE AND ACCEPT CARBON/EMERY'S
231		PROPOSED 12.13% INTRASTATE RETURN ON EQUITY?
232	А.	No. Carbon/Emery's only support for this requested return on equity is in
233		footnote 2 of the Woolsey Direct, which states "Carbon/Emery's requested cost
234		of equity mirrors the cost of equity used and approved by the Commission in
235		other recent UUSF cases." This vague and non-specific assertion leaves out all
236		details including which cases, and how long ago did those cases occur.
237		Carbon/Emery does not state or claim whether these returns on equity were
238		specifically approved by the Commission in a contested proceeding against other
239		alternatives, or if these were requested returns on equity that were not
240		specifically addressed or contested but the case was subject to an overall
241		settlement. Return on equity by its nature changes over time, and the more
242		dated the cases in which this 12.13% return on equity was purportedly
243		determined, the less likely it is to be an appropriate rate of return for use in the
244		current case.
245	Q.	ARE MORE CURRENT RETURN ON EQUITY ESTIMATIONS AVAILABLE
246		FOR RURAL TELEPHONE COMPANIES IN STATE UNIVERSAL SERVICE

247 FUND PROCEEDINGS?

248	А.	Yes. The Kansas Corporation Commission has undertaken regular cost of service
249		audits for the rural telephone companies which draw funds from the Kansas
250		Universal Service Fund, under the statutory mandate that such support be "cost
251		based". The Commission has undertaken these audits since 1997, and the most
252		recent complete list of returns on equity recommended in staff rate of return
253		testimony ⁵ is:

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

Two of the cases were fully litigated, and in each case the Commission adopted the staff-recommended return on equity, and rate of return. Remaining cases were settled by stipulation, however comparison of the staff recommended

- 257 KUSF draw versus the stipulated and Commission-ordered KUSF draw⁶ shows
- that the KCC staff-recommended return on equity, and rate of return was
- 259 utilized in computing the final authorized KUSF draw:

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

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

<u>Company</u>	<u>Company</u>	<u>Staff</u>	Commission	Litigated or
	Requested	<u>Recommended</u>	Granted	Stipulated?
	<u>KUSF</u>	<u>KUSF</u>	<u>KUSF</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	\$806 <i>,</i> 538	\$374,945	\$374,945	Stipulated
Telecommunications				
Wamego	\$4,126,619	\$1,869,326	\$1,869,326	Stipulated
Telecommunications				
S&T Telephone Coop	\$1,620,205	\$746,959	\$835,923	Stipulated
Moundridge Telephone Co.	\$725,818	\$0	\$0	Litigated, ROE stipulated

260	Based on this extensive and direct detailed experience with determining rate of
261	return for rural local exchange companies, the KCC has determined returns on
262	equity of approximately 10% are currently appropriate for its state universal
263	service funding draws. In so doing, arguments in favor of artificially increasing
264	the return on equity above that indicated by traditional application of discounted
265	cash flow (DCF) and Capital Asset Pricing Model (CAPM) methods, such as
266	application of "small company premiums" have been considered and rejected.
267	The Commission should use this recent, robust and rigorously determined series
268	of returns on equity to support use of a 10% return on equity for computation of
269	Carbon/Emery's draw from the Utah Universal Service Fund. Carbon/Emery is
270	similarly situated with the rural local exchange companies in Kansas. Rural local
271	exchange companies generally serve rural areas with low population densities,
272	benefit from low cost borrowing through CoBank and RUS, are organized with
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273		multiple deregulated affiliates which also provide broadband internet access and
274		cable TV programming, and are deploying Fiber to the Home to support this
275		array of services. Carbon/Emery and the rural local exchange companies in
276		Kansas are in the same businesses and face the same types of risks. It is therefore
277		reasonable for the Commission to utilize a 10% return on equity based on direct
278		and complete analysis that is current – much more so than the dated
279		determinations to which Carbon/Emery points. Carbon/Emery's recommended
280		return on equity of 12.13% is clearly not current or justified.
281	Q.	IS A 10% RETURN ON EQUITY CONSISTENT WITH RECENT
282		COMMISSION DETERMINATIONS IN OTHER RECENT UTILITY CASES?
283	A.	Yes. Returns on equity authorized by the Commission have declined somewhat
284		over recent utility cases, from 10% granted to Rocky Mountain Power in Docket
285		No. 10-035-124, and 9.80% in Docket No. 13-035-184, to 9.85% granted to Questar
286		Gas Company in Docket No. 13-057-05. Also, a 10% return on equity is
287		consistent with "Rate Case Summary" information published by the Edison
288		Electric Institute, which indicates average awarded returns on equity have
289		trended downward to below 10%, as of the 4^{th} quarter of 2014.
290	Q.	DID CARBON/EMERY INCLUDE A "SMALL COMPANY PREMIUM" IN
291		ITS REQUESTED RETURN ON EQUITY?
292	A.	The sparse two lines of support for Carbon/Emery's requested 12.13% return on
293		equity does not indicate inclusion of any "small company premium". In any

294 event, the Commission should not accept or include a "small company

295 premium" on top of an appropriately determined return on equity. There is no296 basis for such a premium as is sometimes sought to be applied to rate of return

297 regulated rural telephone companies.

298 Q. IS YOUR RATE OF RETURN RECOMMENDATION CONSISTENT WITH

299 THE MOST RECENT FINDINGS AND ANALYSIS OF THE FEDERAL

300 COMMUNICATIONS COMMISSION STAFF?

- A. Yes. The FCC staff recently produced a comprehensive analysis of appropriate
- 302 rates of return for local exchange carriers.⁷ This Report calculates "a zone of
- reasonable WACC estimates ranging from 7.39 percent to 8.72 percent". My
- 304 recommended 8.45% rate of return is toward the upper end of the FCC zone of
- 305 reasonableness.
- 306 Q. IN YOUR OPINION DOES THIS RECOMMENDED RATE OF RETURN
- 307 MAINTAIN CARBON/EMERY'S FINANCIAL INTEGRITY AND
- 308 OTHERWISE PROVIDE A REASONABLE RETURN WHICH
- 309 APPROPRIATELY BALANCES COMPANY CONSIDERATIONS AND
- 310 CONSUMER INTERESTS?
- 311 A. Yes.

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.

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312	CARE	SON/EMERY'S DEPLOYMENT OF FIBER TO THE HOME FOR DEREGULATED
313	SERV.	ICES
314	Q.	HAS CARBON/EMERY UNDERTAKEN A PROGRAM TO DEPLOY FIBER
315		TO THE HOME (FTTH), AND REFLECTED THOSE COSTS IN THIS
316		APPLICATION?
317	A.	Yes. As explained by Mr. Ostrander in his Direct Testimony beginning at page
318		17, a significant amount of fiber optic cable costs are being recorded on
319		Carbon/Emery's books.
320	Q.	HOW IS CARBON/EMERY FUNDING THE FTTH CONSTRUCTION
321		PROGRAM?
322	A.	Carbon/Emery appears to be funding the FTTH construction program through
323		internally generated funds, which include the rates it charges for all services –
324		regulated and nonregulated, as well as UUSF disbursements.
325	Q.	WHAT IS YOUR UNDERSTANDING OF THE DEFINITION AND
326		IMPORTANCE OF THE TERM "BASIC SERVICE" IN UTAH?
327	A.	Similar if not identical to other states, in Utah "Basic Telephone Service" is
328		equivalent to local exchange service which "means the provision of telephone
329		lines to customers with the associated transmission of two-way interactive,
330		switched voice communication" as defined in Utah Code Annotated Section 54-
331		8b-2 (10). Based on universal service policy considerations, basic service is

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332		supported by the Utah Universal Service Fund in order to maintain affordability
333		of this service to "all" consumers. The UUSF is designed to "promote equitable
334		cost recovery of basic telephone through the imposition of just and reasonable
335		rates for telecommunications access and usage" per Utah Code Annotated
336		Section 54-8b-15 (6) (a). The Commission's rules state the purpose of the fund is
337		"to promote equitable cost recovery and universal service by ensuring that
338		customers have access to basic telecommunications service at just, reasonable
339		and affordable rates".
340	Q.	DOES FTTH DEPLOYMENT SUPPORT PROVISION OF ADDITIONAL
341		SERVICES BEYOND BASIC VOICE TELEPHONE SERVICE, FUNDING OF
342		WHICH IS THE SUBJECT OF THIS PROCEEDING?
343	A.	Yes. FTTH provides a vast broadband capacity which supports multiple
344		services. In contrast to copper plant, FTTH local distribution facilities supports

346 distribution plant was generally designed and placed to support provision of

multiple services, at least two of which are nonregulated services. Copper local

347 voice services, and as it later developed, this plant could also support dial up

348 internet access via modem. The copper plant was later modified and investment

349 was added to it (splitters and DSLAMs) to permit the provision of DSL (or

350 Digital Subscriber Line) over copper facilities, within certain distance limitations.

351 FTTH is designed to support Internet Protocol (IP) networking and service

352	applications including basic voice, IPTV, and broadband internet access. FTTH
353	by its nature enables major new service applications beyond voice services to
354	ride the network, as compared to previous copper based, circuit switched
355	telephone networks. Under Carbon/Emery's current organization,
356	Carbon/Emery provides basic voice services, and its affiliates - Carbon/Emery
357	Telecom Video, LLC and Carbon/Emery Telecommunications & Video, Inc
358	provide cable TV/internet and broadband internet access offerings (respectively)
359	on a nonregulated basis using Carbon/Emery's FTTH network. Thus the FTTH
360	network is jointly used by regulated and nonregulated services and perhaps
361	more importantly, by regulated and nonregulated entities. As described in more
362	detail below, Utah statutes and PSC rules limit the use of UUSF funds to the
363	support of basic voice service. ⁸ Therefore, only the basic voice portion of the
364	FTTH network may be supported by Carbon/Emery's regulated rates and its
365	draw from the Utah Universal Service Fund. Thus some allocation or
366	appropriate division of FTTH facilities between regulated basic telephone service
367	and nonregulated services and entities is required.

⁸ 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. CONFIDENTIAL

368 Q. ARE THERE ALTERNATIVES TO ACHIEVE AN APPROPRIATE DIVISION 369 OF FTTH FACILITIES BETWEEN REGULATED AND NONREGULATED 370 SERVICES AND ENTITIES?

371 A. Yes. In general, costs and investments can be allocated from Carbon/Emery to 372 the appropriate affiliates using the FTTH network to provide their services, or 373 revenues from charges to those affiliates can be shown on Carbon/Emery's 374 books. An equivalent result can be achieved using either method. For example 375 under a cost allocation approach, there should be a reasonable allocation of 376 capital costs and operating expenses from Carbon/Emery to the affiliates (or 377 Carbon/Emery should be reimbursed for these amounts by affiliates through a 378 revenue approach. Consistent with the FCC's Affiliate Transaction Rules and 379 CAM requirements as explained by Mr. Ostrander, revenue responsibility for the 380 FTTH assets is therefore divided among the entities which use and benefit from 381 placement of the FTTH assets, and no more than a reasonable share of the 382 facilities costs is recovered from the UUSF for basic voice service. In the 383 alternative rate base and expenses can be explicitly allocated out of revenue 384 requirements used for determination of UUSF funding.

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

A. Throughout this testimony I use the term "affiliate" to refer to any of the several
 entities (Carbon/Emery Telcom HC; Carbon/Carbon/Emery Telcom; Hanksville
 Telcom; Carbon/Emery Telecommunications & Video; Carbon/Emery Telcom
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389		Long Distance; and Carbon/Emery Telcom Video LLC) which are related to
390		Carbon/Emery Telecom, as indicated in Carbon/Emery's audited financials at
391		page 9. There does not appear to be any meaningful separation or independence
392		regarding planning decisions, such as FTTH, between these affiliates. There can
393		be no doubt that the FTTH project was planned and undertaken by
394		Carbon/Emery with full knowledge of its benefit for Carbon/Emery's affiliates,
395		or perhaps even planned with these affiliates as the primary intended
396		beneficiaries. Please see Mr. Ostrander's testimony for further discussion on the
397		term "affiliate".
398	Q.	WHAT ARE THE THEORETICAL ALLOCATION ALTERNATIVES TO
399		ADDRESS DIVISION OF JOINT FTTH COSTS BETWEEN REGULATED
400		AND DEREGULATED ENTITIES AND SERVICES?
401	А.	If markets for all the services were competitive, then the joint costs would be
402		allocated by market forces. The services with the greatest demand elasticity
403		would bear relatively little of the joint costs, while services with the least demand
404		elasticity would bear relatively more of the joint costs. But since there are not
405		many buyers and many sellers of FTTH capacity and downstream services
406		facilitated by FTTH, the Commission cannot rely upon market forces to
407		accomplish a reasonable allocation of joint FTTH costs between basic voice
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409	One alternative is to allocate based on the relative capacity use of the fiber by the
410	three services enabled by FTTH - basic voice, broadband internet access, and
411	cable TV. In theory, this would be most appropriate since the allocation of the
412	costs should follow the capacity use of the FTTH facilities. Basic voice service
413	uses a very minimal portion of the vast capacity of the FTTH facilities, on the
414	order of 3-5%. So in theory, it would be appropriate for the Commission to
415	allocate 95% of the cost of the FTTH distribution network to nonregulated
416	services, and only 5% of the costs to basic service and the UUSF.
417	Another alternative is the "alternative cost avoidance" approach. The aim of
418	constructing jointly used facilities to provide multiple purposes is to achieve the
419	economies of joint costs. "Since the aim in combining multiple purposes in a
420	series of structures is the savings to be achieved, it is also possible to use the ratio
421	in which these higher expenditures are avoided by joint action as a basis for
422	allocating joint costs."9 Construction of the system of dams and power
423	production facilities by the Tennessee Valley Authority required just such a cost
424	allocation. "Congress directed that the TVA set down on its books what
425	appeared to the Board to be the proper proportions of the total investment
426	attributable severally to power, to navigation, and to flood control. Of the total

⁹ "Those Joint TVA Costs"; by Martin G. Glaeser; <u>Public Utilities Fortnightly</u>, August 31, 1939, at page 267.

427 flood control, navigation and power investment, approximately 68 per cent has 428 been allocated to power, 15 per cent to navigation, and 17 per cent to flood 429 control."¹⁰ The amount of investment allocated to power had obvious 430 consequences for rates charged for electricity by TVA, so this allocation 431 determination was of no small consequence to TVA and the consumers who 432 obtain their electricity from TVA. Similarly, the amount of FTTH investment 433 allocated to basic voice service, and hence the UUSF is of no small consequence 434 to consumers who pay to fund the UUSF. The "alternative cost avoidance" 435 approach would be applied in this instance by estimating the lowest alternative 436 cost by which "substantially the same quantity and quality of service for each 437 separate function [basic voice, broadband internet access, and cable TV] can be 438 obtained."¹¹ Since the fiber optic loop plant is the largest portion of local 439 exchange plant investment, and would be used for each of the services, the 440 allocation of joint FTTH costs would approximate one third to basic voice service 441 (in the instance of three services being analyzed), or one half to basic voice 442 service in the instance of broadband internet access and cable TV being analyzed 443 in combination. The allocation of joint FTTH costs would be at least somewhat 444 different if the lowest alternative cost means of providing basic voice service at

¹⁰ TVA – Democracy on the March; by David E. Lilienthal, Harper & Brothers, 1953, at page 46.
¹¹ "Those Joint TVA Costs"; *Id*.

445		"the same quantity and quality of service" was using existing copper loop plant,
446		or perhaps a fixed wireless approach.
447		Mr. Ostrander has used an allocation of 50% based on the concept of "alternative
448		cost avoidance" explained above.
449	Q.	DOES SUBSTANTIAL ALLOCATION OF FTTH COSTS TO
450		CARBON/EMERY AFFILIATES INDICATE A CHALLENGE TO
451		CARBON/EMERY'S BUSINESS DECISION TO DEPLOY AN FTTH
452		NETWORK?
453	А.	Absolutely not. I do not take issue with Carbon/Emery's decision to pursue
454		FTTH deployment. However, Carbon/Emery's Application in this case assumes
455		recovery of essentially all of the cost of the FTTH network from the UUSF and
456		basic voice services. This is clearly an inappropriate division of costs between
457		regulated and nonregulated services and entities, and one which the
458		Commission should not accept.
459	Q.	IS IT PERMISSIBLE FOR A REGULATED ENTITY TO PAY COSTS ON
460		BEHALF OF AN NONREGULATED ENTITY?
461	А.	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
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465 467 468 469 470 471		A telecommunications corporation providing intrastate public telecommunications services may not subsidize its intrastate telecommunications services which are exempted from regulation or offered pursuant to a price list or competitive contract under authority of this chapter with proceeds from its other intrastate telecommunications services not so exempted or made subject to a price list or competitive 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 BETWEEEN 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.