

**BEFORE THE
WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION**

| | | |
|--------------------|---|----------------------|
| McLEODUSA |) | |
| TELECOMMUNICATIONS |) | |
| SERVICES, INC., |) | |
| Petitioner, |) | Docket No. UT-063013 |
| v. |) | |
| QWEST CORPORATION, |) | |
| Respondent. |) | |

**REBUTTAL TESTIMONY
OF
MICHAEL STARKEY**

On behalf of

McLeodUSA Telecommunications Services, Inc.

June 22, 2006

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1 **I. INTRODUCTION**
2

3 **Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS FOR THE RECORD.**

4 A. My name is Michael Starkey. My business address is QSI Consulting, Inc., 243
5 Dardenne Farms Drive, Cottleville, Missouri 63304.
6

7 **Q. ARE YOU THE SAME MICHAEL STARKEY WHO FILED DIRECT**
8 **TESTIMONY IN THIS PROCEEDING ON APRIL 28, 2006 AND**
9 **SUPPLEMENTAL DIRECT TESTIMONY ON JUNE 5, 2006?**

10 A. Yes.
11

12 **Q. WHAT IS THE PURPOSE OF YOUR SURREBUTTAL TESTIMONY?**

13 A. I will respond to the Response Testimony filed on behalf of the Qwest Corporation
14 (hereafter "Qwest") by Mr. William R. Easton,¹ Mr. Curtis Ashton,² and Ms. Teresa K.
15 Million.³
16

17 **II. RESPONSE TO MR. EASTON**
18

19 **Q. MR. EASTON RAISES A NUMBER OF ISSUES RELATED TO YOUR DIRECT**
20 **TESTIMONY, CAN YOU SUMMARIZE THE POINTS YOU INTEND TO**
21 **ADDRESS?**

¹ Response Testimony of William R. Easton on behalf of Qwest Corporation, Washington Docket No. UT-063013, June 14, 2006 ("Easton Response").

² Response Testimony of Curtis Ashton on behalf of Qwest Corporation, Washington Docket No. UT-063013, June 14, 2006 ("Ashton Response").

³ Response Testimony of Teresa K. Million on behalf of Qwest Corporation, Washington Docket No. UT-063013, June 14, 2006 ("Million Response").

- 22 A. Yes, they are summarized below:
- 23 1. Despite Mr. Easton's assertions to the contrary, McLeodUSA is very aware of
24 the fact that this case focuses on specific contract language and the proper
25 interpretation of that language (specifically the *Power Measuring Amendment*).
26 However, the parties obviously disagree as to the proper interpretation of the
27 language and hence, additional information necessary to discern the most
28 reasonable interpretation is relevant and informative. Moreover, given that
29 Qwest's own engineering documentation, its cost study supporting its rates and
30 the real-world manner in which it provisions collocation power belie Qwest's
31 interpretation of the *Power Measuring Amendment*, it is no wonder Mr. Easton
32 would suggest an unreasonably narrow review.
33
- 34 2. Mr. Easton's assertions regarding the information McLeodUSA should have had
35 available to it prior to signing the *Amendment* miss the mark. The fact of the
36 matter is that the *Power Measuring Amendment* drafted by Qwest and signed by
37 McLeodUSA does not contain the same language as the *Wholesale Products and*
38 *Services* portion of Qwest's website that resulted from the industry meetings to
39 which Mr. Easton repeatedly refers.⁴ All of the Change Management Process
40 ("CMP") meetings Mr. Easton discusses were intended to perfect the language in
41 Qwest's wholesale catalog. However, the actual *Power Measuring Amendment*
42 that was ultimately provided to McLeodUSA and executed by the parties
43 includes language which is specifically different from that found in the catalog.
44 In fact, the language to which Mr. Easton refers when discussing Allegiance
45 Telecom⁵ has been specifically removed from the *Amendment*. Most notably, the
46 Amendment discusses the Power Usage charge generally, and even defines it to
47 include Qwest's power plant capacity (and the actual AC usage purchased from
48 the utility). As such, regardless of what the wholesale catalog says, or what
49 Qwest provided to CLECs in relation to drafting the catalog information, the
50 Amendment is very different and must be interpreted consistent with its own
51 language.
52
- 53 3. Mr. Easton claims that my direct testimony constitutes an attack on the "Power
54 Plant rate itself."⁶ He is mistaken. My testimony makes no mention as to
55 whether the Power Plant rate adopted by the Commission is reasonable or not,
56 nor does it discuss the rate level in any detail. Instead, my direct testimony (as
57 will my testimony below) points out that the manner by which the rate is
58 established also dictates the manner by which it must be assessed if it is to
59 recover the intended level of DC power plant investment. In other words, my
60 testimony discusses only the application of the Power Plant rate, which is exactly
61 at the heart of the debate regarding the *Power Measuring Amendment*. In this

⁴ The information from Qwest's website is provided by Mr. Easton as Exhibit WRE-2. See also, Easton Response, page 3, lines 21 – 23 and page 4, lines 1 – 6 and Easton Response page 4, lines 11 – 12.

⁵ See, Exhibit WRE_3.

⁶ Easton Response, page 21, lines 11 – 12. See also, Easton Response, page 2, lines 22 -26. See also, Ashton Response, page 2, line 24 – page 3, line 2.

62 circumstance, Qwest's Power Plant rate is developed using the amount of power
63 plant capacity actually consumed by Qwest and its collocators, not based upon
64 the size of power feeder cables ordered by McLeodUSA (or any other
65 collocator). Accordingly, applying the Power Plant rate based upon the size of
66 McLeodUSA's power feeder cables (consistent with Qwest's reading of the
67 Amendment) results in Qwest enjoying a windfall at its collocators' expense. It
68 likewise results in CLECs paying far more for DC power plant than Qwest does,
69 even though both rely upon the exact same DC power plant to electrify their
70 respective telecommunications equipment.
71

72 **Q. PLEASE DESCRIBE FURTHER MR. EASTON'S POINT REGARDING THE**
73 **CONTRACT LANGUAGE AND HIS BELIEF THAT IT SUPPORTS QWEST'S**
74 **POSITION IN THIS PROCEEDING.**

75 A. At page 7 of his response testimony, Mr. Easton focuses on the fact that paragraphs 2.2
76 and 2.2.1 of the *Power Measurement Amendment* reference a *-48 Volt DC Power Usage*
77 *Charge* (singular) when describing the application of its power measuring activities.
78 Therein, Mr. Easton places substantial weight on the fact that the *Amendment* uses the
79 singular "Charge" rather than the plural "Charges" when describing *-48 Volt DC Power*
80 *Usage*. Mr. Easton suggests that if the intention of the *Amendment* was to apply to both
81 the *Usage* (8.1.4.1.3) and the *Power Plant* (8.1.4.1.1) charges, it would have been used in
82 the plural. Based upon this distinction, Mr. Easton concludes that the *Amendment*
83 "clearly" implies measured usage for one element only, i.e., the *Power Usage* element
84 (8.1.4.1.3) and not the corresponding *Power Plant* element (8.1.4.1.1).
85

86 **Q. DO YOU AGREE?**

87 A. No, I do not. I would describe Mr. Easton's analysis above as somewhat tortured. In
88 fact, the *Amendment* defines the very "*DC Power Usage Charge*" (singular) upon which
89 Mr. Easton places substantial weight, as being directly tied to the power plant capacity
90 used by the CLEC:

91 The DC Power Usage Charge is for capacity of the power plant available
92 for CLEC's use.

93
94 Hence, while Mr. Easton's erroneous interpretation relies upon the relatively obscure
95 notion that the singularity of the term "*DC Power Usage Charge*" dictates its application
96 (even though it is clearly meant to refer to a group of individual rate elements included at
97 Section 8.1.4 of Exhibit A – often times a group can be referred to in the singular if the
98 author is addressing a single group),⁷ the plain language of the *Amendment* defies this
99 interpretation. The actual definition rendered to the "*DC Power Usage Charge*" within
100 the *Amendment* itself would have to be ignored in order to conclude that the *Amendment*
101 impacts only rate element 8.1.4.1.3 (*Usage*) and not 8.1.4.1.1 (*Power Plant*).

102
103 **Q. BUT MR. EASTON CLAIMS AT PAGE 8 OF HIS RESPONSE TESTIMONY**
104 **THAT YOUR INTERPRETATION OF SECTION 2.1 IS PROBLEMATIC FOR**
105 **THREE REASONS? WOULD YOU LIKE TO RESPOND?**

106 A. Yes. First, Mr. Easton states that "Section 2.1 of the Amendment is a general, contextual
107 section which does not identify the rights and obligations of the parties." (page 8, lines
108 14 – 16). Though I fail to see how this makes a difference, even assuming for the sake of
109 argument that Section 2.1 of the Amendment is "general" and "contextual" as Mr. Easton
110 characterizes it, the context that it provides supports McLeodUSA's interpretation of the
111 *Amendment*. Mr. Easton's approach seems too ready to ignore sections of the
112 *Amendment* simply because they don't support Qwest's interpretation.

113
114 Second, Mr. Easton claims the mere mention of the DC power plant in the *Amendment* is
115 not dispositive of this issue because Qwest makes available the "as ordered" amperage

116 associated with McLeodUSA’s power cables. Presumably, Mr. Easton is saying that
117 since Qwest makes the amount of power associated with McLeodUSA’s power cables
118 available to it, Section 2.1 [“The DC Power Usage Charge is for the capacity of the
119 power plant available for CLEC’s use”] Qwest is justified in assessing the power plant
120 charge on an “as ordered” basis. There are a number of things wrong with Mr. Easton’s
121 argument in this regard. For example, I disagree that the Amendment merely “mentions”
122 power plant capacity, instead, it defines power plant capacity and its associated rate as an
123 element to be impacted by measuring requirements of the Amendment. Indeed, the entire
124 purpose of the “Power Measuring Amendment” was to change the manner by which the
125 DC power rate elements were being assessed, from an “as ordered” to an “as measured”
126 basis. Mr. Easton’s suggestion that DC power plant is mentioned in the *Amendment* only
127 to confirm that the rate will reflect the capacity made available through the order (notice
128 the language doesn’t mention the order anywhere), simply doesn’t ring true given the
129 overarching purpose of the Amendment. Likewise, this is the first time I’ve heard this
130 argument from Mr. Easton, and it strikes me not as a reasoned explanation of the intent of
131 the language developed prior to circulating the *Amendment*, but instead, a late attempt to
132 salvage what is otherwise a very damaging section of the contract relative to Qwest’s
133 position in this case.

134
135 **Q. WHAT IS MR. EASTON’S THIRD CRITICISM REGARDING YOUR**
136 **INTERPRETATION OF SECTION 2.1?**

137 A. Mr. Easton claims that McLeodUSA’s interpretation is inconsistent because Section 2.1
138 would require that the DC Power Measuring Amendment applied *only* to the Power Plant

⁷ I have provided Exhibit A (the pricing appendix) as Exhibit MS-4 to this testimony.

139 charge – a position even McLeodUSA is not taking in this case. Mr. Easton’s argument
140 is a red herring. He is keying off an observation made by the Utah ALJ who recognized
141 that the Amendment (in Section 2.1) is actually more clear about its requirement to apply
142 the DC Power Plant on a measured basis, than it is an intention to apply Power Usage in
143 the same manner (as Qwest interprets it). While I credit Mr. Easton with attempting to
144 address an issue that is unsupportive of Qwest’s position head-on, his explanation does
145 not make sense. Qwest and McLeodUSA both agree that *Power Usage greater than 60*
146 *Amps* (rate element 8.1.4.1.3), should be assessed consistent with measured usage. That
147 is clear from both the *Amendment* when it discusses the Power Usage category as a whole
148 (including both Power Plant [8.1.4.1.1] and Power Usage [8.1.4.1.3]) as well as from the
149 cost study. That is not in debate. The only question is whether the Power Plant rate
150 element should be assessed in the same manner. And, as the Utah ALJ observed, Section
151 2.1 specifically defines the rates to be assessed on a measured basis to include the Power
152 Plant rate meant to recover power plant capacity available to the CLEC.

153
154 **Q. MR. EASTON ALSO ARGUES THAT MCLEODUSA’S INTERPRETATION**
155 **WOULD REQUIRE THE COMMISSION TO INTERPRET A HEADING**
156 **WITHIN THE AMENDMENT AND THAT THE PARTIES’**
157 **INTERCONNECTION AGREEMENT SPECIFICALLY REJECTS THE NOTION**
158 **THAT HEADINGS SHOULD HAVE ANY BEARING ON PROPER**
159 **INTERPRETATION.⁸ DO YOU AGREE?**

160 A. No, not at all. The “heading” to which Mr. Easton refers is actually the rate category at
161 Section 8.1.4 of Exhibit A; the pricing amendment to the parties’ interconnection

162 agreement. As described above, Section 8.1.4 of the pricing amendment is entitled
163 “Power Usage” which includes 8.1.4.1 “DC Power Usage, per Ampere per Month” and
164 includes three rate elements: Power Plant (8.1.4.1.1), Usage Less Than 60 Amps, per
165 Ampere Ordered (8.1.4.1.2) and Usage More Than 60 Amps, per Ampere Used
166 (8.1.4.1.3). The term “-48 Volt DC Power Usage”(and “AC Usage”) is the term referred
167 to by the *Amendment* for which measured usage should apply (see Section 2.2.1 of the
168 *Amendment*). Since there are no other charges in Exhibit A which have the precise label
169 of “-48 volt DC Power Usage”, it is reasonable to assume that this is referring to the rate
170 grouping 8.1.4.1 “DC Power Usage”, which includes both “Power Plant” and “Usage”
171 rate elements. I should also note that in most other Qwest jurisdictions wherein the exact
172 same *Amendment* language was signed by the Parties, this same rate grouping (entitled
173 “DC Power Usage” in Washington, is precisely titled “-48 volt DC Power Usage”).

174
175 Contrary to Mr. Easton’s claim, McLeodUSA is not asking the Commission to denote
176 any special interpretive merit to Exhibit A, Section 8.1.4. Instead, McLeodUSA is
177 simply pointing out that the *Amendment* signed between the parties identifies *-48 Volt DC*
178 *Power Usage* as “specified in Exhibit A of the Agreement” as the operative rates to be
179 impacted by the *Amendment* (see Sections 2.1, 2.2 and 2.2.1). The fact that this same rate
180 category exists in Exhibit A (less the “-48 volt”), and the fact that this rate category
181 subsumes both the *Usage* and the *Power Plant* charges consistent with the definition in
182 Section 2.1 of the *Amendment*, is worth noting. At a minimum, it must be admitted that a
183 reasonable person reviewing the *Amendment* with those facts in mind, would logically

⁸ Easton Response, page 7, lines 16 – page 8, lines 8. See also, Easton Response, page 20, line 19 – page 21, line 2.

184 conclude that the Amendment provides for measured usage on both of the charges
185 identified under 8.1.4.1 *DC Power Usage*.

186
187 **Q. AT PAGE 7 (LINES 10 – 12) OF HIS REBUTTAL, MR. EASTON SUGGESTS**
188 **THAT BECAUSE THERE IS NO RATE ASSOCIATED WITH SECTION 8.1.4.1**
189 **OF EXHIBIT A (ENTITLED *DC POWER USAGE*), IT IS NOT A SEPARATE**
190 **RATE ELEMENT, AND SHOULD NOT BE READ TO HAVE ANY EFFECT ON**
191 **THE LANGUAGE OF THE AMENDMENT. THIS APPEARS TO BE AN**
192 **EXTENSION OF HIS ARGUMENT THAT 8.1.4 IS A “HEADING” AND IS OF**
193 **NO SIGNIFICANCE, TO WHICH YOU DISAGREED. DO YOU AGREE WITH**
194 **THIS ARGUMENT?**

195 A. No. While I agree it is not a separate rate element, it certainly does have significance.
196 Section 8.1.4 entitled Power Usage is a group of rate elements that includes three separate
197 rates as follows (the table below is a direct extraction from Exhibit A):

198
199 **Washington Exhibit A – Section 8.1.4 “Power Usage”**

| | | | |
|-----------|---|--|--------|
| 8.1.4 | Power Usage | | |
| 8.1.4.1 | DC Power Usage, per Ampere, per Month | | |
| 8.1.4.1.1 | Power Plant | | \$9.34 |
| 8.1.4.1.2 | Usage Less than 60 Amps, per Ampere Ordered | | \$1.57 |
| 8.1.4.1.3 | Usage More than 60 Amps, per Ampere Used | | \$3.13 |

200
201
202 It is of utmost significance because it is the only place in Exhibit A wherein the term *DC*
203 *Power Usage* identified specifically in the Amendment as the rates to be measured, can
204 be found. At page 5 of his response testimony Mr. Easton states as follows:

205 Indeed, the term “DC Power Usage Charge” appears five times in the DC
206 Power Measuring Amendment, with an additional two references to the
207 “power usage rate” in section 1.2. Because only one rate element has

208 been explicitly identified in the Amendment, it would be inconsistent
209 with the language of the Amendment to conclude that it applies to more
210 than one element, especially a rate element that is never specifically
211 mentioned in the Amendment.

212 Unfortunately, Mr. Easton’s testimony is only partially accurate. Mr. Easton ignores the
213 fact that the term “DC Power Usage Charge”, to which he affixes much import, includes
214 both Power Plant and Usage under Exhibit A. Note that Mr. Easton is trying to equate
215 the term “DC Power Usage” with the rate element 8.1.4.1.3 “Usage” in Exhibit A.
216 However, as shown in Exhibit A, these terms have distinct meanings with “Usage” being
217 a rate element under the rate grouping “DC Power Usage” (just like the Power Plant
218 charge 8.1.4.1.1 is) referenced in the *Amendment*. In other words, Mr. Easton attempts to
219 convince the Commission that because the term “DC Power Usage” is used five times
220 when describing which elements will be measured, it must conclude that only the
221 “Usage” rate element should be measured, while ignoring the fact that the term “DC
222 Power Usage” has a separate meaning within Exhibit A (i.e., Usage and Power Plant).

223
224
225 Finally, the *Amendment* speaks often of an “AC Usage Charge,” which is meant to reflect
226 “...the power used by the CLEC.” Yet, nowhere in the pricing appendix to the parties’
227 Interconnection Agreement (Exhibit A) do we find a rate element identified as “AC
228 Usage Charge.” Hence, Mr. Easton’s general claim that the fact that the *Amendment*
229 mentions the “DC Power Usage Charge” five times somehow adds credence to Qwest’s
230 interpretation of the *Amendment* is notably misplaced for numerous reasons.

231
232 **Q. MR. EASTON ATTACHES SPECIAL SIGNIFICANCE TO THE FACT THAT**
233 **“ONLY THE POWER USAGE RATE ELEMENTS MAKE THE DISTINCTION**
234 **BETWEEN ‘GREATER THAN’ OR ‘LESS THAN 60 AMPS’” YET “THE**

235 **APPLICABLE RATE FOR POWER PLANT CAPACITY MAKES NO SUCH**
 236 **DISTINCTION.” (EASTON RESPONSE, PAGE 6, LINES 15 – 17). DO YOU**
 237 **AGREE THAT THIS DINSTINCTION SUPPORTS QWEST’S POSITION ON**
 238 **THIS ISSUE?**

239 A. No.

241 **Q. WHY NOT?**

242 A. Because, in many states (all of which rely upon the same Amendment), Qwest does have
 243 separate rate elements for Power Plant – one for “below 60 amps” and one for “above 60
 244 amps” – yet Qwest assesses the Power Plant rate in those states the same way as it does
 245 here in Washington. For instance, I recently testified in Utah, where McLeodUSA and
 246 Qwest are disputing this same issue, and in Utah, Qwest’s Power Usage rate structure is
 247 structured as follow:

249 **Qwest Utah DC Power Usage Rates**

| | | | | |
|-----|---------|--|--|--|
| 250 | 8.1.4 | 48 Volt DC Power Usage | | |
| | 8.1.4.1 | -48 Volt DC Power Usage, per Ampere, per Month | | |
| | | 8.1.4.1.1 | Power Plant | |
| 251 | | | 8.1.4.1.1.1 | Power Plant - Less Than 60 Amps |
| | | | | \$11.7795 |
| | | | 8.1.4.1.1.2 | Power Plant - Equal to or Greater Than 60 Amps |
| | | | | \$7.7927 |
| 252 | 8.1.4.2 | Power Usage | | |
| | | 8.1.4.2.1 | Power Usage - 60 Amps or Less, per Amp | \$1.95 |
| | | 8.1.4.2.2 | Power Usage - More than 60 Amps, per Amp | \$3.89 |

254 As this table shows, Qwest, in Utah, provides two separate rate elements for both Power
 255 Plant and Power Usage, based on the 60 amp threshold found in the Power Measuring
 256 Amendment, but, as evidenced by the ongoing dispute in Utah, Qwest ignores this
 257 distinction in Utah and applies Power Plant on an “as ordered” basis just like it does here
 258 in Washington. If the fact that Qwest has only one Power Plant rate element in

259 Washington means that it should be assessed on an “as ordered” basis, as Mr. Easton
260 testifies, then it would also mean that two separate Power Plant rate elements based on
261 the Power Measuring Amendment 60 amp threshold supports applying the Power Plant
262 rate on a measured basis. But given that this issue has no bearing on Qwest’s
263 interpretation of the Power Measuring Amendment, Mr. Easton’s testimony in this regard
264 should be given little, if any, weight.

265
266 **Q. DOES QWEST HAVE MULTIPLE RATES FOR POWER PLANT – DEPENDING**
267 **ON THE 60 AMP THRESHOLD - IN STATES OTHER THAN UTAH?**

268 A. Yes. A quick review of Qwest’s SGATs⁹ shows that Qwest has separate Power Plant
269 rates – depending on the 60 amp threshold found in the Power Measuring Amendment -
270 in the following 7 additional states: Arizona, Colorado, Idaho, Nebraska, New Mexico,
271 North Dakota, Wyoming. Further, Qwest and McLeodUSA have signed an *Amendment*
272 in those states that includes exactly the same language as the *Washington Amendment*.
273 Hence, Qwest provides multiple Power Plant rates in eight of its 14 states, and in a
274 number of states, Qwest has three separate Power Plant rates (>60 amps; <60 amps; and
275 = 60 amps). Further, Minnesota’s DC power rate structure consists of only the “AC
276 Power Usage” charge, and both Oregon and South Dakota have a DC power rate
277 structure consisting of a single “-48Volt DC Power Usage Charge.” Therefore, despite
278 Mr. Easton’s attempt to place great significance on the single Power Plant rate in
279 Washington, the fact of the matter is that the Washington rate structure is not reflective of
280 the rate structure Qwest has in a majority of its states, where Qwest does provide multiple
281 DC Power Plant rates based on the threshold in the *Power Measuring Amendment*. If

⁹ Available at: <http://www.qwest.com/wholesale/clecs/sgatswireline.html#>

282 anything, the fact that Qwest has multiple Power Plant rates in a majority of its states
283 based on the same 60 amp threshold in the Power Measuring Amendment (and has
284 admitted that its cost studies are structured the same across states), supports the notion
285 that the Power Plant rate should be assessed on a measured basis.

286
287 **Q. IS THERE OTHER INFORMATION GLEANED FROM DC POWER RATE**
288 **STRUCTURES IN OTHER STATES THAT SUPPORT MCLEODUSA’S**
289 **INTERPRETATION OF THE POWER MEASURING AMENDMENT?**

290 A. Yes, there is. As noted above, in both Oregon and South Dakota, Qwest recovers its cost
291 for both electrical usage and its power plant via one combined charge entitled “-48 volt
292 DC Power Usage” –the precise term used in the *Power Measuring Amendment* referenced
293 above. In both Oregon and South Dakota, Qwest and McLeodUSA have signed a *Power*
294 *Measuring Amendment* with the exact same language at issue here. Further, in those
295 states, Qwest currently bills McLeodUSA the -48 Volt DC Power Usage charge based
296 upon measured usage. In other words, in Oregon and South Dakota, Qwest is currently
297 billing McLeodUSA for recovery of its DC Power Plant, on a measured usage basis,
298 consistent with the exact same *Power Measuring Amendment* that is at issue here (even
299 though in Washington Qwest argues doing so would lead it to under-recovery).

300
301 **Q. MR. EASTON SPENDS A GOOD DEAL OF HIS RESPONSE TESTIMONY**
302 **DESCRIBING INFORMATION THAT MAY HAVE BEEN AVAILABLE TO**
303 **MCLEODUSA PRIOR TO SIGNING THE AMENDMENT – INFORMATION**
304 **THAT QWEST BELIEVES SHOULD HAVE RESOLVED ANY DIFFERENCE**
305 **OF OPINION AS IT RELATES TO THE APPLICATION OF THE**

306 **AMENDMENT (e.g., EASTON RESPONSE PAGES 9 – 12). PLEASE**
307 **COMMENT.**
308 A. Mr. Easton provides Exhibit WRE_2, which is an excerpt from Qwest’s website that he
309 suggests was available to McLeodUSA prior to signing the *Power Measuring*
310 *Amendment*. According to Mr. Eason, Exhibit WRE_2 makes Qwest’s intentions clear
311 that it intended to assess Power Usage charges on an “as measured” basis, and Power
312 Plant charges on an “as ordered” basis. While I might disagree that the website
313 information is as clear on this point as Mr. Easton would lead us to believe, the entire
314 issue is really irrelevant. The language in the product catalog is specifically different
315 than the language in the *Power Measuring Amendment*. And, because the parties signed
316 and executed the *Power Measuring Amendment*, it is that language which must be
317 reviewed to understand the intention of the parties. Again, the *Power Measuring*
318 *Amendment* defines the “DC Power Usage Charge” to which measured usage will apply,
319 as “...the power plant available for the CLEC’s use.” [paragraph 2.1, emphasis added].
320 On the other hand, the website information to which Mr. Easton refers discusses a “-48
321 Volt DC Power Capacity Charge” which is never mentioned in the *Power Measuring*
322 *Amendment*, nor can it be found in Exhibit A (the pricing appendix to the parties’
323 Interconnection Agreement). Simply put, even if McLeodUSA had viewed the website
324 information prior to signing the Amendment, it would likely have had little bearing on its
325 interpretation of the Amendment which includes very different language.

326
327 **Q. MR. EASTON POINTS THE COMMISSION TO A QUESTION AND ANSWER**
328 **EXCHANGE BETWEEN QWEST AND ALLEGIANCE TELECOM WHEREIN**
329 **QWEST NOTES THAT POWER PLANT CHARGES WILL NOT BE ASSESSED**

330 **RELATIVE TO THE MEASURED LEVEL OF POWER (EXHIBIT WRE_3).**

331 **SHOULDN'T THIS HAVE CLEARED UP ANY DIFFERENCE OF OPINION**

332 **BETWEEN THE PARTIES?**

333 A. No. First, it is my understanding that this information was not reviewed by
334 McLeodUSA's legal or internal cost-control teams who discussed the *Amendment*
335 internally prior to signing it, nor has McLeodUSA (or Qwest for that matter) been able to
336 identify anyone at McLeodUSA who saw this information prior to execution of the
337 *Amendment*. One possible reason for this is that this information appears to have been
338 provided to CLECs generally in October of 2003, approximately one year before
339 McLeodUSA signed its *Power Measuring Amendment*. Nonetheless, the "Note" at the
340 bottom of Page 1 of the document states as follows:

341 Note: In cases of conflict between the changes implemented through this
342 notification and any CLEC interconnection agreement (whether based on
343 the Qwest SGAT or not), the rates, terms and conditions of such
344 interconnection agreement shall prevail as between Qwest and the CLEC
345 party.
346

347 Therefore, according to Mr. Easton's own exhibit, it is irrelevant because McLeodUSA
348 has in place with Qwest through the *Power Measuring Amendment*, specific, agreed upon
349 language that would supersede any terms, conditions and rates derived through the
350 information in Mr. Easton's exhibit.

351

352 **Q. CONSISTENT WITH YOUR EXPERIENCE IN PARTICIPATING IN CMP**
353 **PROCESSES OR SIMILAR INDUSTRY MEETINGS, ARE THESE PROCESSES**
354 **"FLUID" SUCH THAT FREQUENT CHANGES OCCUR RELATIVE TO THE**
355 **TERMS AND CONDITIONS ASSOCIATED WITH THE INITIATIVES OR**
356 **POTENTIAL OFFERINGS DISCUSSED THEREIN?**

357 A. Yes, indeed, that is the entire concept behind the Change Management Process. It is not
358 at all unlikely that information provided a year before a contract amendment is signed
359 might provide information that was ultimately changed by Qwest in effectuating the final
360 product. Indeed, another clear example can be found in Mr. Easton's own Exhibit
361 WRE_3. At pages 1 and 2 of Exhibit WRE_3, Allegiance Telecom's first question asks
362 whether it will be required to amend its interconnection agreement in order to have its
363 power measured. Qwest responds that a contract amendment will not be necessary, but
364 instead, the measuring process will begin automatically. Yet, Qwest ultimately decided
365 that a *Power Measuring Amendment* would be necessary (see Exhibit WRE_2 at page 2
366 of 7). It is that *Power Measurement Amendment*, a document that wasn't even considered
367 necessary in the October 2003 response to Allegiance Telecom's questions, which
368 McLeodUSA signed and serves as the focus of this complaint.

369

370 **Q. DOES YOUR TESTIMONY CONSTITUTE AN ATTACK ON THE**
371 **COMMISSION'S COLLOCATION POWER RATES?**

372 A. No, my testimony in no way critiques the existing collocation power rates, nor have I
373 recommended that those rates be changed in any way. Instead, my testimony simply
374 points out that Qwest's interpretation of its *Power Measuring Amendment* conflicts with
375 the manner by which the Commission set those rate and as such, Qwest errs when it
376 assesses its Power Plant rates on an "as ordered" as opposed to an "as consumed" basis.

377

378 **Q. MR. EASTON, AT PAGE 21 OF HIS RESPONSE TESTIMONY, STATES THAT**
379 **YOUR DIRECT TESTIMONY WAS NOT ONLY UNSUPPORTED WHEN YOU**
380 **CLAIM THAT QWEST'S RATE DEVELOPMENT CONFLICTS WITH ITS**

381 **POSITION, BUT THAT YOU ARE ATTACKING THE RATE ITSELF, NOT ITS**
382 **APPLICATION. IS HE RIGHT?**

383 A. He is mistaken on both accounts. First, at the time I wrote my direct testimony I did not
384 have access to Qwest’s cost study supporting its Washington collocation power rates, so I
385 was required to speak to this issue from my experience with Qwest collocation cost
386 studies in other states where the cost studies are structured very similarly. In my
387 supplemental direct testimony, I was able to show with Washington-specific data that the
388 points I made in my April 28, 2006 direct testimony were indeed accurate with respect to
389 Washington. Secondly, nowhere in my direct testimony did I question the rate level
390 associated with Qwest’s Power Plant rate (or any other rates). Hence, Mr. Easton has
391 simply constructed a strawman when he complains that “...McLeodUSA paid the Power
392 Plant rate at the Commission-approved ordered levels for several years before ever
393 entering the DC Power Measuring Amendment.”¹⁰ That fact is not disputed, nor is it
394 relevant. What is relevant is that the *Power Measuring Amendment* was specifically
395 intended to revise the manner by which McLeodUSA would pay Qwest for collocation
396 power based upon McLeodUSA’s actual power usage. And, given that the parties
397 disagree as to which rate elements should be impacted by the *Amendment*, it is a logical
398 exercise to discern which rate elements can (or should) be assessed in that manner
399 consistent with their underlying construction.

400

401 **Q. BEGINNING AT PAGE 22 OF HIS REBUTTAL TESTIMONY, MR. EASTON IS**
402 **CRITICAL OF YOUR DIRECT TESTIMONY WHEREIN YOU SUGGEST**
403 **QWEST’S POWER REDUCTION AMENDMENT IS NOT A GOOD**

¹⁰ Easton Response, page 21, lines 13 – 15. See also, Easton Response, page 3, lines 2 – 6.

404 **ALTERNATIVE TO THE POWER MEASURING AMENDMENT WHEN**
405 **INTERPRETED IN THE PROPER FASHION. PLEASE RESPOND.**

406 A. Mr. Easton's description of the *Power Measuring Amendment* in relation to the Power
407 Reduction Amendment makes little sense. In essence, Mr. Easton argues that the *Power*
408 *Measurement Amendment* is meant to allow McLeodUSA to reduce its power usage
409 charges, while maintaining its initial level of power plant capacity available for its use.
410 On the other hand, the Power Reduction Amendment, according to Mr. Easton, allows
411 McLeodUSA to scale back its original "order" by reducing the size of its power
412 distribution cables (i.e., feeder cables) and the size of the fuses that govern the maximum
413 power available to its equipment (in essence, reducing the amount of power it could draw
414 from the power plant). According to Mr. Easton, both Amendments are good options for
415 the CLEC, depending upon the CLEC's objective (i.e., maintaining power plant capacity
416 available for its use or relinquishing it).

417
418 **Q. WHY DOES THIS MAKE LITTLE SENSE?**

419 A. Mr. Easton's description in this part of his testimony is completely contradictory to Mr.
420 Ashton's response testimony at page 10. Therein Mr. Ashton discusses CLEC
421 collocation orders in the 1999 to 2000 timeframe. Mr. Ashton testifies that when CLECs
422 were ordering collocation power in 1999 and 2000 (roughly the timeframe wherein the
423 majority of McLeodUSA collocations in Washington were established), Qwest had little
424 knowledge about CLEC equipment and it was receiving orders for large feeder cables
425 (indicating to Qwest, apparently, the need for substantial power plant capacity). As such,
426 according to Mr. Ashton, Qwest was forced to engineer its power plant facilities such that
427 they could support the entire feeder capacity ordered by the CLECs (what Qwest

428 interpreted to be the CLEC's List 2 drain). Because Qwest was required to size its power
429 plant investment relative to those orders, Mr. Ashton believes Qwest would fail to
430 recover those investments in additional power capacity if McLeodUSA's interpretation of
431 the *Power Measuring Amendment* was adopted given that McLeodUSA would now only
432 be billed based upon its consumption, not on the capacity Qwest made available for its
433 use.

434

435 **Q. PLEASE DESCRIBE THE INCONSISTENCY BETWEEN MR. EASTON'S AND**
436 **MR. ASHTON'S TESTIMONIES.**

437 A. Mr. Easton in describing the Power Reduction Amendment at page 19 of his testimony
438 describes its fundamental purpose as follows: "With the Power Reduction offering, a
439 CLEC can reduce the amount of power capacity it has available." Likewise, consistent
440 with the terms of the Power Reduction offering, the CLEC after reducing the size of its
441 cables and its fuses, will be charged less associated with its power plant capacity (i.e., it
442 will be assessed the Power Plant charge based on the new, smaller amperage associated
443 with its reduced power delivery system – feeder cables and fuses). It is this offering that
444 is inconsistent with Mr. Ashton's testimony.

445

446 **Q. HOW IS IT INCONSISTENT WITH MR. ASHTON'S TESTIMONY?**

447 A. If indeed Mr. Ashton is right, and Qwest is concerned that reduced Power Plant recovery
448 relative to McLeodUSA's interpretation of the *Power Measuring Amendment* in this
449 docket would leave Qwest without the proper opportunity to recover power plant
450 investments made in the 1999-2000 timeframe relative to CLEC power demands, then he
451 should have the exact same concern relative to Qwest's own Power Reduction offering as

452 described by Mr. Easton. In other words, McLeodUSA and other CLECs could, through
453 the Power Reduction offering, accomplish a similar reduction in their Power Plant
454 charges, it is just that the Power Reduction Offering would also require them to spend a
455 large sum of money to inefficiently resize cables and fuses they have already paid to
456 establish. Nonetheless, Qwest's recovery for DC power plant investment would be
457 impacted in the same fashion (i.e., it would be substantially reduced). Furthermore, as
458 discussed in detail by Mr. Morrison, Qwest has made clear that it does not augment its
459 DC power plant relative to the size of a CLEC's order for power feeder cables (nor
460 should it). Hence, Qwest's Power Reduction offering results in the same outcome as
461 assessing Power Plant charges based on measured usage, except that the Power Reduction
462 offering requires CLECs to expend thousands of dollars for unnecessary and risky work.
463 As such, Mr. Ashton's concern relative to under-recovery due to previous engineering
464 decisions made by Qwest is not specific to McLeodUSA's interpretation of the Power
465 Measuring Amendment, but is equally applicable to any of Qwest's reduction
466 amendments that it holds out in this case as an alternative McLeodUSA could choose. Of
467 course, as Mr. Morrison explains and the facts show, Mr. Ashton's claims regarding
468 Qwest building additional DC power plant in response to CLEC orders for feeder
469 distribution cables are undermined by Qwest's own engineering technical publications
470 and the history of actual power plant augmentation.

471
472 **Q. PLEASE ELABORATE ON YOUR POINT THAT QWEST'S POWER**
473 **REDUCTION OFFERING AND ASSESSING POWER PLANT CHARGES ON A**
474 **MEASURED BASIS RESULT IN THE SAME OUTCOME.**

475 A. The following hypothetical examples will help illustrate this point. If we assume that a
 476 CLEC originally ordered 200 amp power cable, the CLEC’s usage is 50 amps, and the
 477 power plant capacity of the Qwest central office is 5000 amps. Under this scenario
 478 Qwest assesses CLEC the Power Plant rate (\$9.34) on the power cable order (200 amps)
 479 for a total monthly Power Plant charge of \$1,868 (I will refer to this as Scenario 1).
 480 Now, if we assume that the CLEC decides to use the Power Reduction Offering to reduce
 481 its power cables closer to its usage (say, 75 amp cables), the following would occur (I
 482 will refer to this as Scenario 2): (1) CLEC would incur several thousands of dollars in
 483 Power Reduction Charges; (2) Qwest would begin billing CLEC on 75 amps (the new
 484 cable/breaker size) or \$700.50 per month, (3) CLEC usage remains at 50 amps, and (4)
 485 Qwest would have 5000 amps of DC power plant capacity. Now if we assume under
 486 Scenario 3 that instead of the Power Reduction Offering, Qwest began billing CLEC
 487 Power Plant charge on measured usage, the following would occur: (1) Qwest would
 488 begin billing CLEC on 50 amps (the usage) or \$467 per month, (2) CLEC usage remains
 489 at 50 amps, and (3) Qwest would have 5000 amps of power plant capacity. These three
 490 scenarios can be summarized as follows:

| Impact of Power Reduction Offering Vs. Measured Billing | | | |
|---|----------------|---------------------|--------------|
| Assumptions | Scenario 1 | Scenario 2 | Scenario 3 |
| CLEC power cable order | 200 amps | 75 amps | 200 amps |
| CLEC usage | 50 amps | 50 amps | 50 amps |
| Qwest power plant capacity | 5,000 amps | 5,000 amps | 5,000 amps |
| Qwest Power Plant rate | \$9.34 | \$9.34 | \$9.34 |
| Rearrangement Costs to CLEC | \$0.00 | Thousands of \$\$\$ | \$0.00 |
| Monthly DC Power Plant Costs | \$1,868 | \$700.50 | \$467 |

492 As the above table shows, the ultimate outcomes of both Scenarios 2 and 3 is a
 493 significant reduction in monthly billing for the Power Plant rate. However, under the
 494 Power Reduction offering (Scenario 2), to achieve this result the CLEC was forced to

495 incur thousands of dollars in rearrangement fees to reduce its power cable amperage,
496 while under Scenario 3, these charges were not required, yet the billing was reduced
497 nevertheless (indeed, it was reduced to the actual usage as required by the Power
498 Measuring Amendment, instead of a smaller ordered amperage). Importantly, this table
499 shows that Qwest did not do anything to the capacity of its DC power plant. According
500 to Qwest, it needs to build CLEC power plant to the ordered level because it makes that
501 amount of capacity available which would go un-recovered if Power Plant is billed on a
502 measured basis, yet as shown above, the Power Reduction offering would result in the
503 same 5,000 amp power plant capacity with a lower Power Plant billing – just as in the
504 case of measured billing – the only difference being the thousands of dollars in charges
505 CLEC had to incur in unnecessary work to achieve the result. This work is unnecessary
506 because the costs arise from Qwest rearranging power cables that McLeodUSA has
507 already bought and paid for through separate recurring and non-recurring charges.

508

509 **Q. IF MCLEODUSA COULD ACCOMPLISH SIMILAR REDUCTIONS IN ITS**
510 **POWER PLANT CHARGES BY CHOOSING THE POWER REDUCTION**
511 **AMENDMENT, WHY NOT JUST SIGN THAT AMENDMENT?**

512 A. There are two primary problems with Qwest’s Power Reduction offering in this regard.
513 First, as described in detail by Mr. Morrison, power feeder cables and fuses should be
514 sized to a carrier’s List 2 drain for safety purposes. As such, the sizing of those
515 “delivery” assets has no direct correlation to the amount of power plant capacity the
516 carrier will require, and sizing them smaller than required by engineering standards
517 would lead to significant safety and reliability concerns. And as shown in the above
518 example, this would still result in overcharges (albeit, to a lesser degree than Qwest’s “as

519 ordered” billing) to CLEC, i.e., the CLEC would be billed for 75 amps instead of
520 50amps. Therefore, Qwest’s Power Reduction offering which allows the CLEC to reduce
521 its Power Plant charges to a level consistent with a reduced feeder cable and fuse size is
522 still insufficient because it fails to recognize that even this reduced sizing for cables and
523 fuses will relate to substantially more power plant charges than the CLEC should
524 reasonably bear. Under this offering the CLEC will still pay for a substantially
525 exaggerated number of Amps related to its actual power plant usage.

526
527 Second, the Power Reduction offering would require McLeodUSA to resize cables and
528 fuses for which it has already paid Qwest substantial fees to put in place. And, there is no
529 engineering or compelling economic reason to alter those delivery facilities simply to
530 achieve an economic result (i.e., reduced charges for Power Plant and Power Usage) that
531 is more efficiently (and equitably) achieved through a more reasoned application of
532 Qwest’s Power Plant and Power Usage rate elements (a result achieved by a proper
533 reading of the *Power Measuring Amendment*).

534
535 **Q. PLEASE ELABORATE ON YOUR POINT THAT MCLEODUSA HAS**
536 **ALREADY PAID QWEST “SUBSTANTIAL FEES” ASSOCIATED WITH ITS**
537 **POWER FEEDER CABLES AND THE PLACEMENT OF ITS FUSES.**

538 A. When McLeodUSA originally established its physical collocation arrangements within
539 Qwest’s Washington central offices, it was assessed non-recurring charges associated
540 with its DC power feeds and likewise pays a monthly fee associated with those feeds.
541 For example, in a situation wherein McLeodUSA orders a 300 Amp power feed, it pays
542 Qwest a non-recurring charge equal to \$16,502.98 and pays a monthly rate equal to

543 \$24.32 (see Section 8.4.2.6 of Exhibit A, and as indicated in Section 8.4.2.7, charges are
544 more for additional feeds). Those charges, according to Qwest's cost study, fully
545 compensate Qwest for the feeder cables themselves, and the engineering and provisioning
546 labor that went into placing those cables (and this is in addition to the space construction
547 charges McLeodUSA paid between \$40,000 and \$50,000 to construct its collocation
548 cage). The NRC related to these cables was a substantial investment on McLeodUSA's
549 part and McLeodUSA is reluctant to re-engineer those facilities just so it can pay lower
550 Power Plant charges, especially when Qwest's application of Power Plant charges in
551 direct relation to the size of its feeder cables has been misplaced since the beginning, and
552 correcting for that improper application would derive the same outcome. It is for this
553 reason that the *Power Measuring Amendment* when first presented to McLeodUSA
554 appeared to be a substantial improvement in Qwest's overall collocation power offering.
555 Using McLeodUSA's interpretation, the *Power Measuring Amendment* finally
556 recognized that the sizing of McLeodUSA's power feeder cables has no correlation to the
557 amount of DC power plant it will use, and as such, the *Amendment* broke the erroneous
558 correlation between "ordered" power and consumed power that Qwest had previously
559 indoctrinated in its misapplication of both power usage and power plant rates.

560

561 **Q. AT PAGES 24 – 25 OF HIS REBUTTAL TESTIMONY, MR EASTON**
562 **DISCUSSES THE TESTIMONY OF QWEST'S CLEC AFFILIATE QCC (QWEST**
563 **COMMUNICATIONS CORPORATION) FILED IN ILLINOIS. THEREIN HE**
564 **PROVIDES SEVERAL REASONS THAT PURPORTEDLY DISTINGUISH THIS**
565 **CASE FROM THE CASE IN ILLINOIS. ARE THE REASONS HE PROVIDES**
566 **CONVINCING?**

567 A. No. At the bottom line, Qwest's CLEC affiliate in Illinois is attempting to protect the
568 current process whereby SBC/AT&T-Illinois (the ILEC) is required to assess charges for
569 all DC power components (including power plant) on a measured basis. In doing so, it is
570 clear that Qwest's CLEC affiliate understands the importance of an economically
571 rationale collocation power rate structure, despite the fact that its ILEC affiliate in this
572 case is attempting to maintain a non-measured structure for at least its power plant
573 component. Nonetheless, I address each of Mr. Easton's individual points below:

574 First, Mr. Easton claims that SBC/AT&T Illinois' proposal "is really a re-fusing
575 proposal, not a power reduction offer."¹¹ Though this is a distinction without a
576 difference, Mr. Easton's labeling is not overly accurate. Qwest's Power
577 Reduction offering involves re-fusing, just like in Illinois. Take for example,
578 Qwest's description of the Power Reduction Charge at Section 3.2.2 of the
579 Qwest-proposed DC Power Reduction Amendment Attachment 1 (DC Power
580 Reduction Procedure). This defines the Power Reduction Charge as including
581 "costs associated with reducing the fuse/breaker size." Further, both the Illinois
582 and Washington proposals involve *reducing* the size of fuse/breaker – a
583 fuse/breaker that is already installed, paid for, and serving CLEC equipment.
584 And, as Mr. Morrison explained at pages 59 – 62 of his direct testimony, QCC's
585 witness Ms. Hunnicutt-Bishara expressed operational concerns related to
586 reducing fuse/breaker sizes similar to the concerns Mr. Morrison described in his
587 direct testimony. For the same reason, Mr. Easton's criticism at page 24, lines 15
588 - 16 is misplaced, as Ms. Hunnicutt-Bishara's stated concerns relate to "low
589 fusing amperage" and associated overload potential, generally, not specifically to
590 a 200% fusing limitation, as Mr. Easton implies.

591
592 Second, Mr. Easton states that SBC/AT&T Illinois' re-fusing proposal is
593 mandatory, unlike Qwest's Power Reduction offering which is a voluntary
594 offering.¹² Again, this issue is really irrelevant. In Illinois Qwest's affiliate,
595 QCC, is expressing concerns regarding the outcome of the Illinois proposal, and
596 the correct comparison would be the outcome of the Washington offering.
597 Obviously, the CLEC would not be re-fusing and lowering the amperage of its
598 power distribution facilities if it were not purchasing Qwest's Power Reduction
599 Offering. Though Mr. Easton is correct that Qwest's Power Reduction is not
600 mandatory, Qwest is holding that offering out as the only manner by which
601 CLECs can reduce their power plant costs which are significantly larger than the
602 power they actually consume (and the costs Qwest incurs to provide the power).
603 This is especially egregious when McLeodUSA has already signed the Power
604 Measuring Agreement that provides a different, and more rationale outcome.

¹¹ Easton Response page 25, line 1.

¹² Easton Response, page 25, lines 3.

605
606 Third, Mr. Easton states that “the SBC Illinois proposal would require frequent
607 mandatory re-fusing as usage levels change.”¹³ However, I fail to see how this
608 departs from Qwest Washington’s Power Reduction Offering given that Mr.
609 Easton’s own testimony shows that the outcome of the Power Reduction and
610 Power Restoration offerings would be for CLECs to frequently change (both
611 increase and decrease) the size of its power distribution facilities as usage levels
612 change.

613
614 Fourth, Mr. Easton’s claim that Ms. Hunnicutt-Bishara’s legal concern is
615 grounded solely in Illinois-specific rules¹⁴ is wrong. She testified that such an
616 outcome would likely not be in compliance with National Fire Protection
617 Association (NFPA) 70-2005, Article 215.3. Obviously, it would be as important
618 for Qwest to adhere to fire protection standards in Washington as it would be for
619 SBC/AT&T in Illinois.

620
621 Fifth, and perhaps most importantly, Mr. Easton’s point with regard to the
622 Illinois rate structure being a combined rate structure (and hence wildly different
623 from Qwest’s rate structure) is misplaced¹⁵

624
625
626 **Q. WHY ARE MR. EASTON’S CONCERNS ABOUT THE COMBINED NATURE**
627 **OF ILLINOIS’ RATE STRUCTURE MISPLACED?**

628 A. Though Mr. Easton largely makes this point in passing, it is an important point for the
629 Commission to understand. Mr. Easton appears to argue that because the rates for
630 collocation power in Illinois are combined (i.e., electrical usage and power plant elements
631 are recovered in a single rate), QCC’s comments in Illinois aren’t overly applicable here.
632 Though Mr. Easton is right about the first part (i.e., those components are combined in
633 the Illinois structure), he is wrong about the applicability of such a rate structure in this
634 case – the point is specifically relevant here. In Illinois, SBC/AT&T-Illinois is required
635 to assess the combined rate (both usage and power plant) on a measured basis, and that is
636 exactly the structure QCC is attempting to protect via its testimony in Illinois, even
637 though its ILEC affiliate in this case is attempting to argue that such a structure which

¹³ Easton Response, page 25, lines 4 – 5.

¹⁴ Easton Response, page 25, lines 11 – 13.

638 assesses Power Plant charges on a measured basis is not valid. Indeed, that QCC's
639 position is consistent with McLeodUSA's is evident from the argument made in its post-
640 hearing brief to the Illinois Commerce Commission, wherein QCC argued that "it is
641 beyond reasonable dispute that, under AT&T's proposal, QCC will pay for power it is
642 not actually consuming."¹⁶ It is equally beyond reasonable dispute that, under Qwest's
643 interpretation here, McLeodUSA will pay for power plant it is not actually consuming. It
644 is just as outrageous in Washington as QCC found it to be in Illinois.

645

646 **III. RESPONSE TO MR. ASHTON**

647

648 **Q. AT PAGE 10 OF HIS RESPONSE TESTIMONY MR. ASHTON CONTENDS**
649 **THAT QWEST CANNOT EFFECTIVELY ENGINEER ITS POWER PLANT TO**
650 **ACCOMMODATE A LIST 1 DRAIN FOR CLECS (LIKE IT DOES ITS OWN**
651 **EQUIPMENT) BECAUSE QWEST DOESN'T HAVE THE REQUISITE**
652 **INFORMATION. DO YOU AGREE?**

653 **A.** No. While Mr. Morrison will address the majority of Ashton's testimony in this regard, I
654 would like to address one specific issue: Qwest's own collocation application belies Mr.
655 Ashton's testimony. McLeodUSA's position is that Qwest should engineer DC power
656 plant for CLECs in exactly the same fashion it engineers DC power plant for its own
657 equipment. That is, Qwest should review the telecommunications equipment that will be
658 powered by the power plant in the central office, evaluate the List 1 Drain associated with
659 that equipment and ensure that DC power plant capacity is available to meet that List 1
660 Drain of the central office. Mr. Ashton's testimony attempts to indicate that Qwest

¹⁵ Easton Response, page 25, lines 5 – 8.

661 cannot undertake such a non-discriminatory approach because it doesn't know enough
662 about the CLEC collocated equipment. Yet, not only does Mr. Morrison explain that
663 Qwest knows the List 1 drain for McLeodUSA in all instances, but the collocation
664 application Qwest requires CLECs to populate when ordering collocation space
665 contradicts his position.

666

667 **Q. HOW DOES THE COLLOCATION APPLICATION CONTRADICT MR.**
668 **ASHTON'S TESTIMONY?**

669 A. I have attached Exhibit MS-5 to my testimony, which is a copy of Qwest's collocation
670 application as taken from Qwest's website.¹⁷ Therein, Qwest requires the CLEC to
671 provide substantial information not only about the types and quantity of equipment it will
672 place in its collocation (Section II.F) – by manufacturer and model number – but also the
673 forecasted circuits the equipment is expected to support (Section III.B). Likewise,
674 McLeodUSA is expected to (and does) inform Qwest when its forecasted circuit counts
675 change (either upward or downward). The following diagram is excerpted directly from
676 Qwest's collocation application as an example of the information CLECs are required to
677 provide:

678

¹⁶ QCC Initial Post-Hearing Brief, p. 6.

¹⁷ http://www.qwest.com/wholesale/downloads/2006/060306/DNLD_New_Change_Augment_Application_V20.xls



B. CIRCUIT/ICDF COLLOCATION LEG QUANTITY (enter desired quantities)

| | | UNEs (See Note 6) | Common Area Splitter (See Note 4) | In-Site Splitter (See Note 5) | Common Area Splitter Collocation (Converted DS0 UNEs - Notes 4 & 6) | In-Site Splitter Collocation (Converted DS0 UNEs - Notes 5 & 6) | Finished Services - Leased Private Lines | Administrative Facilities (See Note 14) | ICDF Collocation (See Note 7) | Total Requested Circuits | Total Required Circuit Legs/Fiber Strands | Minimum Increments |
|---------------------------------|---------------------|-------------------|-----------------------------------|-------------------------------|---|---|--|---|-------------------------------|--------------------------|---|--------------------|
| 1. Existing/Available Inventory | POTS | | | | | | | | 0 | 0 | 1 | |
| | POTS (Splitter) | | | | | | | | 0 | 0 | 100 | |
| | DS0 | | | | | | | | 0 | 0 | Note 3 | |
| | DS1 | | | | | | | | 0 | 0 | 1 | |
| | DS3 | | | | | | | | 0 | 0 | 1 | |
| | Fiber (See Note 10) | | | | | | | | 0 | 0 | 6 | |
| 2. New/Augment/Reduction | POTS | | | | | | | | 0 | 0 | 1 | |
| | POTS (Splitter) | | | | | | | | 0 | 0 | 100 | |
| | DS0 | | | | | | | | 0 | 0 | Note 3 | |
| | DS1 | | | | | | | | 0 | 0 | 1 | |
| | DS3 | | | | | | | | 0 | 0 | 1 | |
| | Fiber (See Note 10) | | | | | | | | 0 | 0 | 6 | |
| 3. Net Circuit and Leg Counts | POTS | | | | | | 0 | | 0 | 0 | | |
| | POTS (Splitter) | | 0 | 0 | | | | | 0 | 0 | | |
| | DS0 | 0 | | | | | | | 0 | 0 | 0 | |
| | DS1 | 0 | | | | 0 | | | 0 | 0 | 0 | |
| | DS3 | 0 | | | | 0 | | | 0 | 0 | 0 | |
| | Fiber | 0 | | | | | | | 0 | 0 | 0 | |

679

680

681 **Q. DOES MCLEODUSA HAVE AN INDEPENDENT INCENTIVE TO ENSURE**
682 **THAT ITS FORECASTED CIRCUIT COUNTS ARE ACCURATE?**

683 **A.** Yes, because this information is used not only to provide Qwest a forecasted load related
684 to McLeodUSA’s equipment, it also serves as the means by which Qwest provides cross-
685 connect facilities to McLeodUSA’s equipment. In other words, if McLeodUSA fails to
686 properly forecast its anticipated DS0, DS1 and DS3 needs in the table above, it will not
687 have the cross-connects available between its own facilities and the Qwest network
688 needed to activate the required circuits (and it wouldn’t be able to service its customers).

689

690 **Q. AT PAGE 13 OF HIS RESPONSE, MR. ASHTON RESPONDS TO MR.**
691 **MORRISON’S DIRECT TESTIMONY RELATING TO COMMENTS QWEST**

692 **MADE IN IOWA. DO YOU HAVE ANYTHING TO ADD IN RESPONSE TO MR.**
693 **ASHTON?**

694 A. Yes, I do. Mr. Ashton states as follows at page 13 of his response testimony:

695 It is my understanding that what the Qwest witness, Mr. Hubbard, meant
696 by that statement is that the larger the [CLEC power] order, the closer or
697 more likely Qwest would be to augment its power plant. However, the
698 more important point here is that any CLEC order for power entitles
699 Qwest to charge its Commission-approved TELRIC rates. My
700 understanding of these rates is that they do not necessarily relate to
701 Qwest's real world experience, and that Qwest is not required to
702 demonstrate that it actually constructed any power plant in response to an
703 order for it to be entitled to charge those rates.

704
705 Unfortunately, Mr. Ashton, in describing his understanding of Qwest's collocation power
706 rates, is only partially accurate. Most disturbing is his erroneous contention that Qwest's
707 collocation rates "do not necessarily relate to Qwest's real world experience" in
708 engineering central office power plant. As I discussed earlier, while TELRIC often has
709 been maligned by incumbent carriers as being overly hypothetical and theoretical, the
710 fact of the matter is that a proper TELRIC study should rely upon the engineering
711 guidelines of the company in question, the study simply assumes that the Company is
712 acting in an efficient manner when employing those guidelines (as a company in a more
713 competitive market would be required to do). And, indeed, that is the case with Qwest's
714 collocation power charges at issue in this proceeding.

715
716 **Q. ARE YOU SAYING THAT QWEST'S COST STUDY ASSUMES THAT QWEST**
717 **SIZES POWER PLANT THE SAME WAY IT DOES IN THE "REAL WORLD" –**
718 **i.e., BASED ON POWER CONSUMPTION?**

719 A. Yes. Qwest's cost study supporting its Power Plant rate assumes batteries, rectifiers and
720 other DC power plant equipment are sized precisely as Qwest would engineer those

721 facilities in the real world. Further, the cost study assumes that the entire DC power plant
722 is available equally both to Qwest and collocators – i.e., it is a completely “shared-use”
723 facility - just as Qwest does in the real world. Indeed, in presenting its cost model, Qwest
724 stressed the importance of the model’s ability to mimic real world engineering and
725 situations specific to Washington. For example, Qwest’s supporting documentation for
726 its cost study states as follows:

[Qwest’s] CM [Collocation Model] is based on proper economic costing
principles and TELRIC concepts. The two most important costing
principles are cost causality (i.e. the accurate attribution of costs to the
factors that cause those costs to be incurred) and *realism (i.e. realistic
assumptions on network engineering design and field conditions)*.¹⁸

733 Given this background, Mr. Ashton’s attempt (like Ms. Million’s attempt) to distance
734 Qwest’s real-world engineering guidelines and practices (described by Mr. Morrison)
735 from the development of its collocation rates falls short.

736

737 **Q. ISN’T MR. ASHTON SIMPLY ARGUING THAT QWEST DOESN’T**
738 **NECESSARILY HAVE TO INVEST IN ADDITIONAL POWER PLANT**
739 **EQUIPMENT RELATIVE TO A PARTICULAR CLEC’S COLLOCATION**
740 **ORDER BEFORE IT CAN LEGITIMATELY ASSESS ITS COLLOCATION**
741 **POWER RATES?**

742 A. Perhaps, and if so, he is correct. TELRIC studies generally, and Qwest’s study in this
743 case, recover costs related to investments made to provide services (or elements)
744 generally. In this example, Qwest’s Collocation Model assumes that regardless of who
745 uses the available capacity of the power plant (whether newly installed or not), that party

¹⁸ Collocation Model (CM) Users Manual, Version 1, July 2000 (Market Services and Economic Analysis Organization), page 5. emphasis added.

746 will bear its proportional cost of the power plant output it consumes (assuming it pays the
747 resultant rates relative to the amount of power it consumes – not as Qwest currently
748 assesses those charges based upon orders). As such, Mr. Ashton is right (even though his
749 point contradicts Qwest’s position in this case), i.e., individual CLEC orders are ignored
750 by the cost study because they have no economic bearing on the manner by which Qwest
751 incurs power plant costs, and as such, assessing power plant rates based upon the size of
752 those orders is an inconsistent application of the resultant rate.

753

754 **Q. MR. ASHTON (AT PAGE 21, LINE 18 – PAGE 22, LINE 5) FINDS “CURIOUSLY**
755 **ABSENT” IN YOUR WASHINGTON TESTIMONY SOME TESTIMONY YOU**
756 **FILED IN IOWA REGARDING HOW QWEST INCURS COSTS FOR VARIOUS**
757 **COMPONENTS OF THE CENTRAL OFFICE POWER SYSTEM. IS THERE A**
758 **SPECIFIC REASON YOU DID NOT INCLUDE THIS EXACT TESTIMONY IN**
759 **WASHINGTON TESTIMONY?**

760 A. Actually, the testimony to which Mr. Ashton refers *is* incorporated in my Washington
761 testimony (albeit in different words). My testimony to which Mr. Ashton refers simply
762 explains the key difference between power *distribution* and power *plant* in terms of cost
763 causation, and why billing the Power Plant charge on the amperage associated with a
764 power cable order is inappropriate (the same position I have taken here in Washington).
765 Just so that there is no ambiguity on this issue, I have provided the Iowa testimony to
766 which Mr. Ashton refers (this testimony begins in my Iowa rebuttal testimony):

767

768 **Q. OBVIOUSLY, YOU BELIEVE THAT QWEST’S POWER**
769 **PLANT COSTS INCREASE RELATIVE TO THE**
770 **AMOUNT OF POWER ULTIMATELY CONSUMED BY**
771 **MCLEODUSA (NOT CONSISTENT WITH THE SIZE OF**

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MCLEODUSA’S ORIGINAL ORDER). WHAT IS THE BASIS FOR YOUR BELIEF?

A. Like Mr. Morrison, I think it is important to break Qwest’s central office power system into the three distinct components detailed below in order to distinguish between the manner by which Qwest incurs cost relative to each (note that Qwest also recognizes these three categories as it has structured its rates accordingly).

| | Category | Qwest Rate Element(s) | Rate Level |
|----|----------------|--|--|
| 1. | Power Delivery | DC Power Cable(s) (8.4.2.5 & 8.4.2.7 ¹⁹) | Various depending upon required Amperage |
| 2. | Power Plant | 8.1.4.1.1 | \$12.17 per Amp |
| 3. | Power Usage | 8.1.4.1.3 | \$4.37 per Amp |

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As Mr. Morrison has explained, there is no debate as to the cost causative nature of the DC power cables that connect McLeodUSA to the central office power plant (*i.e.*, Power Distribution/Delivery facilities). It is a simple, physical fact that the actual size of the power cable (and relative cost of the cable) grows as the amperage to be accommodated by the cable is increased. Hence, the larger the power cables ordered by McLeodUSA, then subsequently, the more cost Qwest will incur in filling the order for DC power distribution cables. As such, costs related to power cables constituting the power distribution/delivery system should (and are) assessed based upon the size of the cables ordered by McLeodUSA (measured in amps).

Q. WHY THEN, IS THE SAME NOT TRUE FOR EITHER POWER PLANT AND/OR POWER USAGE COSTS?

A. McLeodUSA’s original order sizing the cables between its collocation arrangement and the central office power plant (*i.e.*, the power distribution/delivery system) has no direct bearing on the amount of power, or the capacity of the available power plant McLeodUSA will actually consume. As Mr. Morrison discusses

¹⁹ When a carrier purchases a Physical Collocation arrangement from Qwest, Qwest’s rates include 1-60 Amp power feed. Rate elements 8.4.2.5 and 8.4.2.7 allow the collocater to order either smaller or larger DC Power Feeds based upon their needs.

804 in detail in his testimony, there are a number of very good
805 engineering reasons why a company like McLeodUSA may
806 order very large DC power cables capable of carrying substantial
807 amperage, yet only consume amperage at levels substantially
808 below the capacity of those cables.

809
810 **Q. HOW DOES THIS FACT IMPACT THE COST**
811 **CAUSATION RELATIONSHIP BETWEEN THE ORDER**
812 **FOR POWER CABLES, AND THE AMOUNT OF POWER**
813 **MCLEODUSA MAY ACTUALLY CONSUME?**

814 **A.** Since there is no relationship between the size of the power
815 cables originally ordered by McLeodUSA, and the amount of
816 power it will actually consume (and thereby the capacity of the
817 power plant it will consume), then there can be no reasonably
818 construed cost causative relationship between the DC power
819 cable order and the usage or power plant capacity afforded to
820 McLeodUSA. Said another way, Qwest does not incur costs
821 relative to its power plant (or power usage) at the time
822 McLeodUSA places an order for power cables, rather, Qwest
823 incurs power plant and power usage costs generated by
824 McLeodUSA only when, and only to the extent, to which
825 McLeodUSA actually draws (consumes) power. As such, those
826 power plant and power usage costs are incremental to
827 McLeodUSA's actually using power, rather than ordering cables
828 capable of carrying power.
829

830 As shown by the excerpt from my Iowa rebuttal testimony, Mr. Ashton's curiosity was
831 piqued by a non-issue.
832

833 **IV. RESPONSE TO MS. MILLION**
834

835 **Q. HAVE YOU HAD AN OPPORTUNITY TO REVIEW THE RESPONSE**
836 **TESTIMONY OF MS. TERESA K. MILLION FILED ON JUNE 14, 2006 IN THIS**
837 **DOCKET?**

838 **A.** Yes, I have.
839

840 **Q. DO YOU HAVE ANY GENERAL OBSERVATIONS?**

841 A. Yes, a few. The most striking thing about Ms. Million's testimony upon first reading is
842 the number of times she uses terms like "illogical and misleading,"²⁰ "misleading and
843 meaningless,"²¹ and "misleading and illogical"²² to describe my supplemental testimony.
844 Yet, when you review the substance of her Response, it is very thin with respect to facts
845 or data that would support her position. Instead, her testimony rests primarily on
846 unsubstantiated opinion that conflicts with Qwest's technical documentation and the cost
847 study. Nonetheless, she does say a number of things that require a direct response,
848 including several statements that are wrong as a matter of fact and others that misconstrue
849 proper cost study development and the FCC's TELRIC ("Total Element Long Run
850 Incremental Cost") rules.

851
852 **Q. PLEASE IDENTIFY THE VARIOUS STATEMENTS MADE BY MS. MILLION**
853 **THAT YOU BELIEVE REQUIRE DIRECT REBUTTAL SO AS TO CORRECT**
854 **THE RECORD?**

855 A. Ms. Million begins her testimony by taking issue with statements I made regarding
856 Qwest's willingness to provide to McLeodUSA its cost study such that I could analyze
857 and discuss it in my direct testimony. She defends Qwest's refusal to provide the cost
858 study by making two overarching points: (1) Qwest believed the cost study information
859 to be irrelevant given that, in Qwest's opinion, this case is solely about contract
860 interpretation and (2) the document was publicly available and McLeodUSA should

²⁰ Million Response, page 13.

²¹ Million Response, page 3.

²² *Id.*

861 simply have obtained it through other means rather than impose upon Qwest to provide it
862 via discovery.²³

863
864 The first of Ms. Million's criticism is the most troubling because it shows a lack of
865 understanding as to McLeodUSA's overall complaint. I address that fundamental issue
866 in the next section of my testimony. However, the second complaint (i.e., the issue of
867 confidentiality and McLeodUSA's decision to use the discovery process to gain access to
868 the cost study rather than simply obtaining it from the Commission) requires a response
869 as it bears on the credibility of Ms. Million's testimony in general.

870
871 **Q. PLEASE EXPLAIN YOUR SECOND POINT REGARDING THE CREDIBILITY**
872 **OF MS. MILLION'S TESTIMONY.**

873 A. As the Commission is likely aware, McLeodUSA's Washington complaint is one of
874 several filed throughout Qwest's territory in an attempt to effectuate the *Power*
875 *Measuring Amendment*.²⁴ When this same case was being litigated in Iowa (the first
876 jurisdiction in which the complaint was filed), Qwest objected to providing the Iowa cost
877 study, which is nearly identical to the Washington cost study save for state-specific data,
878 on the following grounds:

879 This request's lack of relevance to the billing dispute is compounded by
880 the fact that the information requested is extremely confidential trade
881 secret information of Qwest detailing its costs and facility configuration
882 and capabilities, and providing that information to McLeodUSA, a direct,
883 facilities-based competitor, would place Qwest at a competitive
884 disadvantage.
885

²³ Million Response, page 3.

²⁴ I have provided a copy of the Power Measuring Amendment as Exhibit MS-2.

886 It is worth noting that the Respondent responsible for this response was Terri Million,
887 Staff Director (a copy of Qwest’s Iowa Response to McLeodUSA DR No. 3 is attached
888 as Exhibit MS-3). The dire consequences Ms. Million described in Iowa related to Qwest
889 divulging its “extremely confidential” cost study stands in direct conflict with her
890 admonition here that McLeodUSA should have simply asked the Commission for it,
891 rather than burdening Qwest.²⁵ The fact of the matter is that Qwest’s initial position was
892 that the information was proprietary and shouldn’t be provided at all, so McLeodUSA
893 was simply pursuing the customary channels for seeking proprietary (and other)
894 information during a litigated proceeding (i.e., discovery). It is disingenuous for Ms.
895 Million to criticize McLeodUSA for not realizing that the information was public and not
896 having obtained it through some public source, given that it is Ms. Million’s “about face”
897 that led to this issue.

898

899 **Q. DOES THIS ISSUE BEAR ON THE SUBSTANCE OF THIS CASE?**

900 A. It doesn’t bear directly on the proper interpretation of the Power Measuring Amendment,
901 but it corrects the “tone” set by Ms. Million’s testimony, wherein she dedicates a
902 significant amount of testimony to attempting to portray McLeodUSA as lazy or
903 misinformed as it relates to Qwest’s cost study. It also bears on the credibility of Ms.
904 Million’s testimony, as she bases her criticism of McLeodUSA on a false premise.

905

906 **Q. PLEASE DISCUSS THE MORE SUBSTANTIVE ISSUE, I.E., WHY ARE**
907 **QWEST’S DC POWER COSTS RELEVANT TO THIS PROCEEDING?**

²⁵ *Id.*

908 A. There are two reasons why Qwest’s cost study supporting its DC Power rates are relevant
909 and important to this proceeding. First, Ms. Million specifically, and Qwest generally,
910 seem to have ignored the fact that McLeodUSA’s complaint is two-fold; i.e.,
911 McLeodUSA complains that (a) Qwest misinterprets language agreed to by the parties as
912 to how DC power rates should be assessed and (b) Qwest’s interpretation is
913 discriminatory in that it requires McLeodUSA to pay more for power than Qwest itself
914 would pay (and, as such, is inconsistent with state and federal law).²⁶ Analysis regarding
915 the discriminatory nature by which Qwest assesses its various rates must ultimately be
916 rooted in proper cost recovery, and the cost study supporting those rates and identifying
917 the intended cost-recovery mechanisms is the most instructive documentation to aid in
918 that analysis.

919
920 Second, the *Power Measuring Amendment* is, by its very nature, a recognition on the part
921 of Qwest that at least one of its DC Power rate elements (*8.1.4.1.3 Usage More than 60*
922 *Amps*) should be assessed differently than it had been assessed in the past. In other
923 words, absent the need for Qwest to recognize that at least rate element 8.1.4.1.3 should
924 be assessed on an “as measured” basis as opposed to the “as ordered” basis Qwest had
925 used to that point, there would have been no need for Qwest to offer the *Power*
926 *Measuring Amendment* in the first place. Further, given Qwest’s recognition that
927 *8.1.4.1.3* had been inappropriately applied (presumably in relation to its underlying cost
928 structure), it is logical to assume that a difference of opinion as to the applicability of the
929 other DC Power Rate element (*8.1.4.1.1 Power Plant*) may also be analyzed by looking
930 to the underlying cost information upon which the rate was developed. Simply put, the

²⁶ See, e.g., McLeodUSA’s *Petition for Enforcement of Interconnection Agreement*, page 5.

931 manner by which costs are measured and the resultant rate is established, dictates the
932 manner by which the rate must be applied (to ensure proper cost recovery), and the cost
933 study is the first place you should look when questions about proper rate application
934 arise.

935
936 **Q. IN YOUR RESPONSE ABOVE, YOU INDICATE THAT THE POWER**
937 **MEASURING AMENDMENT IS A RECOGNITION ON QWEST'S PART THAT**
938 **AT LEAST ONE OF THE DC POWER RATES SHOULD BE APPLIED**
939 **DIFFERENTLY THAN IT HAD BEEN APPLIED BY QWEST IN THE PAST.**
940 **PLEASE EXPLAIN THAT POINT IN MORE DETAIL.**

941 A. At page 4 of her Response testimony, Ms. Million states as follows:

942 There is no question that the Power Plant rate has been applied to
943 CLECs' power needs on an "as ordered" basis since it was first
944 implemented in Washington. Indeed, Qwest's cost study clearly
945 indicates on both the Rate Summary tab and the Detailed Summary of
946 Results tab that Qwest requested, and the Commission approved, that the
947 Power Plant rate would be charged according to the number of amps
948 specified in CLECs' power feed orders. Attached as Exhibit TKM-2 is a
949 printout of the Detailed Summary of Results for the Washington Cost
950 Study, including the comments to each rate element. The comments to
951 the Detailed Summary of Results are direct and clear. Qwest stated that
952 its cost study supported a rate for power plant based on the number of
953 amps in a CLEC's power feed order, and explained that the rate would be
954 assessed on an "as ordered" basis.

955
956 Ms. Million's point is that the Power Plant rate has always been assessed on an "as
957 ordered" basis, and that the cost study itself in summarizing the rates, references its
958 application on as "as ordered" basis. Hence, according to Ms. Million, there can be no
959 question that the Power Plant rate must be assessed on an "as ordered" basis. In support
960 of this argument, Ms. Million includes with her testimony Exhibit TKM-2, which is an
961 excerpt from the Washington Collocation Cost study (excerpted from Excel tab: A.

962 *Detailed Summary of Results*). The following is a direct excerpt from the electronic copy
963 of the cost study, taken from that same tab (and visible on Ms. Million’s Exhibit at the
964 top of Page 2):
965

| Washington Interconnection Services Collocation | | | | | |
|---|------------|--------------|-----------------------------|-----------------|-----------------|
| Cost Element | Investment | Total Direct | TELRIC | Common | TELRIC + Common |
| | sB r1 | sB r14 | Total Direct X (1 + 0.1962) | TELRIC X 0.0405 | sB r40 |
| 1.4 Power Usage | | | | | |
| 1.4.1 Power Plant per Amp Ordered | | | | | |
| Power Plant per Amp Ordered | \$480.10 | \$7.50 | \$8.9765 | \$0.3635 | \$9.3400 |
| Power Usage-Less than 60 AMPS per Amp Ordered | | \$1.26 | \$1.51 | \$0.06 | \$1.57 |
| Power Usage-More than 60 AMPS per Amp Ordered | | \$2.52 | \$3.01 | \$0.12 | \$3.13 |

966
967 Note that after identifying each of the three Power Usage rate elements, each one is
968 identified as “per Amp Ordered,” including “*Power Usage-More than 60 Amps.*”
969 Presumably, this means that Qwest originally intended to assess both the Power Usage
970 and Power Plant charges on an “as ordered” basis (and indeed, that is the way Qwest
971 assessed those rates prior to the *Power Measuring Amendment*). Yet, even Qwest admits
972 that the *Power Measuring Amendment* was specifically intended to change the rate
973 application for at least one of those elements (*Power Usage-More than 60 Amps*) from an
974 “as ordered” to an “as measured” basis. This then raises an important question: If Qwest
975 originally intended to apply both of these rate elements on an “as ordered” basis, but
976 *intentionally* changed the application of at least one of these elements previously
977 identified “as ordered” to an “as measured” basis, why then is Qwest so insistent that the
978 other rate element (namely Power Plant) bearing the same instruction shouldn’t have also
979 been changed? I find it curious that Ms. Million can easily accept the fact that the Power
980 Usage rate is now billed on an “as measured” basis (seemingly inconsistent with her
981 Exhibit TKM-2), but strenuously objects to the notion that the Power Plant rate element

982 should be treated the same – when Qwest originally applied an “as ordered” designation
983 to both of the rate elements. This inconsistency undermines Ms. Million’s testimony on
984 this topic.

985
986 **Q. IS EXHIBIT TKM-2 MEANINGFUL IN PROVING THAT THE POWER PLANT**
987 **RATE ELEMENT SHOULD BE ASSESSED ON AN “AS ORDERED” BASIS?**

988 A. No. Again, the specific purpose of the *Power Measuring Amendment* was to change the
989 manner by which Qwest would assess various power usage charges. That is not in
990 debate. The only question that is truly in debate is: Which elements were to be changed
991 via the *Amendment*? That question can only be answered by looking both to (a) the
992 language of the *Power Measuring Amendment* for purposes of gauging the intention of
993 the parties and (b) looking to the cost study to determine if such a change is appropriate
994 given the manner by which each rate was developed. In both circumstances, the facts
995 support McLeodUSA’s interpretation wherein both the Power Usage and Power Plant
996 rate elements should be applied on an “as measured” basis (I discuss the language
997 included in the *Power Measuring Amendment* in more detail in response to Mr. Easton,
998 see *supra*. Section II).

999
1000 **Q. MS. MILLION DISAGREES WITH YOUR ANALYSIS WHEREIN YOU**
1001 **CONCLUDE THAT THE COST STUDY, WHEN DEVELOPING THE POWER**
1002 **PLANT RATE, USES USAGE AS THE PRIMARY BUILDING BLOCK. PLEASE**
1003 **RESPOND.**

1004 A. Ms. Million states as follows at page 7:

1005 While I do not deny that the *label* for the divisor (1000) on tab E.1.4
1006 Power Equipment used to calculate the cost per Amp of power plant says

1007 “DC Power Usage,” I strongly disagree that it means that the calculation
1008 itself results in a power plant cost based on usage. Nor am I suggesting
1009 that the cost per Amp for power plant is based on “some measure of
1010 power feeder cable size or an assumption related to List 2 drain for
1011 CLEC equipment and List 1 drain for Qwest equipment.” The fact is that
1012 none of these measures of power has anything to do with the way in
1013 which Qwest calculated the cost per Amp for power plant. Mr. Starkey
1014 has focused his discussion on a label in the cost study that was
1015 admittedly applied imprecisely and has ignored completely the actual
1016 logic and the calculation of cost that results in a per Amp rate for power
1017 plant based on the amount of power plant required to produce a
1018 hypothetical 1000 Amps of power capacity. That calculation has nothing
1019 to do with usage and it has nothing to do with Qwest’s embedded costs
1020 associated with its power plant equipment.
1021

1022 Frankly, Ms. Million’s response doesn’t make sense. While first admitting that the cost
1023 study itself indicates that the total investment is divided by usage to arrive at what
1024 necessarily must therefore be a usage-based cost per Amp, she goes on to suggest that
1025 usage was not the basis for per-Amp costs. While Ms. Million’s refusal of the obvious
1026 (i.e., that dividing by usage will produce a usage-based cost per Amp) is inappropriate on
1027 its face, she goes on to state that the divisor was not the level of the CLECs’ power cable
1028 order (i.e., what I would expect to see if Qwest’s position were correct), nor was it List 1
1029 drain or List 2 drain (i.e., some level of engineered capacity). Apparently, Ms. Million is
1030 unable to apply any meaning to the 1,000 amps used to develop per amp costs, other than
1031 to suggest it was consistent with an overly hypothetical construct required by TELRIC
1032 (Total Element Long Run Incremental Cost). Following Ms. Million’s argument to its
1033 logical conclusion, what she is saying is that the 1,000 amps in Qwest’s cost study is
1034 completely arbitrary, or that it was not meant to reflect any engineering judgment. Were
1035 that true (which it is not), then the resultant rates would be arbitrary and without meaning
1036 as well, something that was certainly not intended by the Commission in adopting them.
1037

1038 **Q. EXPLAIN WHY YOU BELIEVE THAT MS. MILLION’S ASSERTION**
1039 **REGARDING THE “HYPOTHETICAL” NATURE OF THE COST STUDY IS IN**
1040 **ERROR?**

1041 A. Ms. Million provides the necessary rebuttal to this point on the very next page of her
1042 testimony. Therein (page 8), she provides us the overarching architecture of the cost
1043 study (and specifically, the DC Power Usage rate development) when she admits that the
1044 cost study was built to answer the following question:

1045 “How much would the power plant cost on a per Amp basis if I were to model
1046 enough power equipment to produce 1000 Amps of power capacity?”
1047

1048 This question informs us that the model was developed using a hypothetical power plant
1049 capable of producing 1,000 amps of power usage (what Ms. Million refers to as
1050 capacity). In other words, the power plant modeled in the cost study will support a level
1051 of simultaneous electrical usage equal to 1,000 amps. That is perfectly consistent with
1052 the discussion in my Supplemental Direct Testimony and corroborates the cost study’s
1053 own terminology wherein, at cell B10 (tab: E.1.4 Power Equipment), it identifies the
1054 1,000 amps as “DC Power Usage.” Ms. Million’s discussion does not support Qwest’s
1055 position that the Power Plant rate should be applied based upon the size of the CLEC’s
1056 order for power feeder cables (a variable even Qwest admits has no direct or measurable
1057 correlation to power usage or capacity).

1058
1059 **Q. AT PAGE 8, MS. MILLION STRESSES THAT NEITHER THE COST STUDY,**
1060 **NOR ANY OF ITS ASSUMPTIONS, HAVE “ANYTHING TO DO WITH THE**
1061 **ACTUAL ELECTRICAL CURRENT THAT ANY TELECOMMUNICATIONS**

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EQUIPMENT IN A CENTRAL OFFICE MIGHT CONSUME.” DO YOU

AGREE?

A. No, I do not. Ms. Million’s complete quote is provided below:

The point of this discussion is that none of these assumptions has anything to do with the actual electrical current that any telecommunications equipment in a central office might consume. The only “chargeable unit” being developed in Qwest’s cost study is the cost of an Amp of power plant capacity, whether it is based on a hypothetical power plant configuration with 1000, 500 , or 2000 Amps of capacity.

For Ms. Million’s statement to be true (and/or Qwest’s cost study to be meaningful under Ms. Million’s assertion), Qwest would have to build its power plant (i.e., plan and construct the size of its DC Power equipment), without any regard to the amount of usage it is required to accommodate. That is, there would have to be no linkage between the size of the power plant “capacity” to which Ms. Million refers, and the anticipated usage. Indeed, she attempts to make this very point at page 10 of her testimony when she suggests that:

...the 1000 Amps of DC Power Usage assumed in Qwest’s cost study is really an assumption about the total capacity available from a given amount of power equipment and has no correlation to the actual amount of electrical current consumed by telecommunications equipment.... [emphasis added]

Ms. Million’s contention that the capacity of the power plant is completely detached from the anticipated electrical usage it will support is simply untrue. Indeed, if Ms. Million’s description of the cost study were accurate, then the cost study diverges dramatically from Qwest’s own engineering practices, as embodied in Qwest Technical Publications, wherein it states that Qwest sizes its power plant equipment according to the List 1 drain (i.e., peak usage) for all equipment in the central office, and then constructs its power plant sufficient to accommodate that level of usage. Simply put, regardless of Ms.

1091 Million's assertions to the contrary, there is a direct and meaningful correlation between
1092 electricity consumed by the telecommunications equipment in the central office, and the
1093 resultant size of the power plant (both in the real world and in the cost study). That is
1094 exactly why the cost study uses the term "usage" when identifying the 1,000 amps of
1095 power plant capacity. There is no imprecision in the cost study, as suggested by Ms.
1096 Million.

1097

1098 **Q. IF WE ASSUME YOU ARE CORRECT AND THERE IS A DIRECT**
1099 **CORRELATION BETWEEN USAGE AND THE SIZE OF THE POWER PLANT,**
1100 **WOULD QWEST'S COST STUDY THEN MAKE SENSE AND BE CONSISTENT**
1101 **WITH ITS STATED ENGINEERING PRACTICES?**

1102 A. Yes, it would. It would not, however, support Qwest's position in this proceeding
1103 because it makes clear the fact that Qwest, in the cost study, divided its total power plant
1104 investment by a measure of its usage, and as such, the only logical application of the
1105 resultant rate would be to a measure of the CLEC's usage (not the size of the CLEC's
1106 power cable order). The substantial information provided by McLeodUSA showing that
1107 there *is* a direct correlation between power plant capacity and usage, in both the real
1108 world and in Qwest's cost studies, seriously undercuts Qwest's theory in this case, and
1109 appears to be the driving force behind Ms. Million's characterization of the cost study as
1110 overly hypothetical and completely detached from Qwest's actual operations.

1111

1112 **Q. DO YOU AGREE WITH MS. MILLION'S ASSERTIONS REGARDING THE**
1113 **HYPOTHETICAL NATURE OF THE COST STUDY?**

1114 A. No. At pages 12 and 13 Ms. Million testifies as follows:

1115 The FCC's TELRIC rules require Qwest to develop costs on the basis of
1116 a hypothetical, forward-looking network. This means that regardless of
1117 the existing network that Qwest has in place, or the costs that it will or
1118 has incurred for that embedded network, Qwest is entitled to charge
1119 CLECs for the use of its network (including DC power) so long as it does
1120 so using TELRIC compliant rates.
1121

1122 With this explanation, Ms. Million attempts to convince us that the cost study does not,
1123 and indeed, should not, be based upon Qwest's own engineering guidelines (including
1124 guidelines that require DC Power Plant capacity to be based upon List 1 Drain – or peak
1125 usage). Instead, according to Ms. Million, TELRIC requires some abstract network that
1126 is so “forward looking” as to be hypothetical. She is mistaken and Qwest's own cost
1127 study refutes her testimony.

1128

1129 **Q. PLEASE EXPLAIN.**

1130 A. It is clear from discovery responses provided by Qwest in Iowa in relation to its cost
1131 study (and made available here by agreement of the parties), that Qwest's cost study
1132 assumes the use of the same DC power equipment Qwest actually employs in its network,
1133 and assumes in the cost study, that the equipment is used exactly as it would be in the
1134 field. Likewise, the model uses actual invoices and purchase order data to reflect its
1135 investment in this type of equipment. Moreover, Mr. Ashton (Qwest's point witness on
1136 engineering issues) admitted in a similar Utah proceeding that he served as the
1137 engineering subject matter expert on the cost study and personally validated the
1138 engineering assumptions used therein. Hence, while Ms. Million would like us to believe
1139 that the cost study bears no resemblance to Qwest's actual network design, her testimony
1140 is inconsistent with this other evidence from Qwest. While it is true that TELRIC cost
1141 studies may become somewhat hypothetical in employing the forward looking

1142 requirement of TELRIC (e.g., assumptions that the network contains 100% digital
1143 switches even though analog switches still exist), no such assumptions impact Qwest's
1144 DC Power cost study. Indeed, there is no particular "forward looking" technology
1145 substitution evident at all in Qwest's DC power study that I can discern; batteries,
1146 rectifiers, re-generation equipment, etc. are all equipment used by Qwest in its actual
1147 power plant. Nonetheless, even if Ms. Million's concerns had any basis in fact (which
1148 they do not), she has the theory wrong as well. "Forward looking" assumptions required
1149 by TELRIC are best implemented by using the company's engineering documentation
1150 aimed at making its operations optimally efficient (as in this case, Qwest's technical
1151 documents discussing proper sizing of DC Power Plant do). As such, if Qwest's cost
1152 studies intentionally ignored Qwest's engineering documentation related to sizing its DC
1153 Power Plant based upon a measure of usage (i.e., List 1 Drain), as Ms. Million contends,
1154 the cost study would be a poor estimate of Qwest's TELRIC costs. Fortunately, that is
1155 not the case.

1156

1157 **Q. CAN YOU PLEASE SUMMARIZE THE IMPORTANCE OF THE DISCUSSION**
1158 **ABOVE?**

1159 A. Yes. Ms. Million argues that the cost study uses a "hypothetical" 1,000 amps of capacity,
1160 and as such, the 1,000 amps provides little insight into whether the rate should be applied
1161 on an ordered or consumed basis (because she believes the cost study is simply being
1162 "imprecise" when it refers to the 1,000 amps as "usage"). However, her arguments ring
1163 hollow in light of the fact that power plant capacity is purposefully sized, according to
1164 Qwest's own technical documents, in relation to the amount of usage anticipated by the
1165 office at peak demand under normal operating conditions (List 1 drain). Hence, in this

1166 circumstance, “capacity” and “usage” are somewhat synonymous. Though perhaps not
1167 represented by a 1:1 correlation, the fact is that were more usage anticipated in the office,
1168 additional power plant would have to be placed and, likewise, were less usage
1169 anticipated, less power plant would be placed. As such, the power plant investment is
1170 incremental to the amount of engineered usage and hence, when the cost study uses usage
1171 as the basis for calculating per-amp rates (i.e., total investment divided by usage), the
1172 process is both logical and determinative. However, in order for Qwest to realize proper
1173 cost recovery, the resultant rate must be applied to usage as I have described throughout
1174 my testimony, and not some unrelated CLEC order for power feeder cables (which even
1175 Ms. Million admits plays no role in developing the rates).

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1177 **Q. MS. MILLION, AT PAGE 9 OF HER TESTIMONY, TAKES ISSUE WITH THE**
1178 **CHART YOU INCLUDED IN YOUR SUPPLEMENTAL TESTIMONY. PLEASE**
1179 **RESPOND.**

1180 A. Ms. Million’s primary criticism is found at page 9 of her Response as follows:

1181 The following simple mathematical example will make obvious the fallacy of
1182 Mr. Starkey’s analysis. If the investment in power equipment necessary to make
1183 available 1000 Amps of power plant capacity is \$448,000 and that amount is
1184 divided by 1000 Amps of hypothetical capacity, then the investment per Amp is
1185 \$448. Further, if, as Mr. Starkey states in his testimony, actual usage is “only
1186 about 17.93% of the capacity,” then actual usage would be 179.3 Amps. It is
1187 easy to see that 179.3 Amps used times \$448 per Amp equals \$80,326.40, an
1188 amount that is far short of the original power plant investment of \$448,000.

1189

1190 To borrow a term from Ms. Million, her analysis is at best “misleading.” To make her
1191 example work, Ms. Million is forced to mix the concept of capacity as it relates to the
1192 power plant, with the capacity of the power feeder cables. To do so, she uses an excerpt
1193 from my testimony in a fashion that shows either a gross misunderstanding of the issue,
1194 or a willingness to obfuscate the facts. Consider the following line from her testimony:

1195 Further, if, as Mr. Starkey states in his testimony, actual usage is “only
1196 about 17.93% of the capacity,” then actual usage would be 179.3 Amps.
1197 It is easy to see that 179.3 Amps used times \$448 per Amp equals
1198 \$80,326.40, an amount that is far short of the original power plant
1199 investment of \$448,000.
1200

1201 In my testimony when I refer to usage being only 17.93% of the capacity, I am quite
1202 clearly referring to the capacity of the feeder cables (which Qwest interprets as the
1203 CLEC’s power order), NOT the capacity of the power plant. In other words, on average
1204 in Washington, McLeodUSA’s power usage equates to only 17.93% of the capacity of its
1205 power feeder cables, not 17.93% of the power plant capacity. As such, when Ms. Million
1206 erroneously translates this percentage into power plant usage (i.e., 179.3 Amps out of
1207 1,000), it is no wonder that her analysis shows under recovery; because the analysis is
1208 nonsensical. In my example, the capacity of the power plant does not change, and still
1209 has 1,000 amps of available power, regardless of McLeodUSA power “order,” because
1210 the available capacity is only impacted by McLeodUSA’s usage. And that is the point.
1211 The size of McLeodUSA’s order for power feeder cables bears no real or meaningful
1212 relationship to the capacity of Qwest’s DC power plant that McLeodUSA will consume
1213 at a given point in time, and as such, should have no bearing on sizing the power plant or
1214 contributing toward recovering its costs (a point with which Qwest’s technical
1215 documentation agrees). Because, as explained by Mr. Morrison, Qwest engineers the size
1216 of its DC power plant consistent with the List 1 drain for the entire central office, it is
1217 McLeodUSA’s actual usage, in combination with the usage of all other central office
1218 inhabitants (including Qwest), that contributes to that List 1 drain at the central office
1219 busy hour/busy day, and dictates the size of the power plant. Therefore, because the
1220 power plant is sized based upon an estimate of usage, usage serves as the only
1221 appropriate basis upon which to recover power plant costs, because it is the only way to

1222 ensure that each power consumer pays for that portion of the power plant capacity it uses.

1223 The cost study recognizes this point in that it divides total power plant investment by

1224 usage to arrive at per amp costs.

1225

1226 **Q. AT PAGE 9 AND 10 OF HER RESPONSE, MS. MILLION CONTENDS THAT IT**
1227 **WOULD BE IMPOSSIBLE FOR QWEST TO ESTIMATE AN AVERAGE COST**
1228 **RELATIVE TO ITS POWER PLANT BECAUSE THE USAGE EFFECTUATED**
1229 **BY THE POWER PLANT FLUCTUATES AND ISN'T EASY TO PREDICT. DO**
1230 **YOU AGREE?**

1231 A. No, not at all. Ms. Million's point here appears to be that a cost study meant to recover
1232 power plant costs based on usage would be impossible to construct because Qwest does
1233 not know how much of the power plant's capacity will actually be used on average.

1234 Again, she is mistaken. Ms. Million's background indicates that she has substantial
1235 experience in developing telecommunications cost studies. As such, the concept of a fill
1236 factor should be familiar to her. Cost studies routinely employ fill factors wherein the
1237 actual consumption of an element does not equate to its total capacity (i.e., the element is
1238 never quite fully utilized – a very common scenario).²⁷ Consider the following example,
1239 wherein the capacity of an element equals 12 units, yet consumption generally averages
1240 only 10 units. In this circumstance, cost studies routinely divide the total investment for
1241 the 12 units by the 10 units that are used on average so as to ensure proper cost recovery
1242 on an average, per unit basis (illustrated below):

²⁷ Consider, for example, a Qwest digital switch. Obviously, Qwest's digital switches have enormous capacity that is never fully utilized (by design). Instead, some average level of usage is studied for purposes of developing per minute switching costs. The same concept applies here in a much less complicated form. If Qwest is able to derive average switch usage patterns and thereby develop average per-minute costs, it has the wherewithal to easily solve a similar problem related to its less complex power plant facilities.

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Fill Factor Adjustment

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| | | | |
|---|---------------------------------------|--------------|-------------|
| a | Total Capacity | 12 | units |
| b | Cost of Total Capacity | \$100 | assumption |
| c | Average Consumption | 10 | units |
| d | Fill-Adjusted Per Unit Costs | \$10 | (\$100/10) |
| e | Demand * Unit Price (Recovery) | \$100 | (10 * \$10) |
| e | Fill Factor | 83% | (10/12) |

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This concept is easily applied to Qwest's power plant wherein its actual measured usage often falls below the List 1 drain by which it is sized. And, contrary to Ms. Million's testimony, I'm informed that the actual usage on the power plant is something that is tracked routinely by power engineers for purposes of managing the power plant and for purposes of analyzing the need for potential augmentation. Hence, her unsubstantiated claim that it would be "impossible" for Qwest to estimate an average cost per Amp for power plant is simply wrong.

Q. MS. MILLION ALSO TAKES ISSUE WITH YOUR TABLE INCLUDED AT PAGE 5 OF YOUR SUPPLEMENTAL TESTIMONY. SHE SUGGESTS THAT IF MCLEODUSA WERE TO HAVE ORDERED THE 500 OR SO AMPS IN THE TABLE, QWEST WOULD HAVE INCREASED THE SIZE OF ITS POWER PLANT CAPACITY TO MEET THAT ORDER AND HENCE, TOTAL POWER PLANT CAPACITY IN THE TABLE SHOULD HAVE INCREASED ACCORDINGLY. DO YOU AGREE?

A. No. Washington is the third state (Iowa and Utah being the first and second) wherein this case will go to trial and substantial testimony has been filed by both parties. Nowhere in

1267 any of those proceedings (including this one), has Qwest provided even 1 piece of data
1268 indicating that it actually sizes its power plant capacity to accommodate the power
1269 required to fully load a CLEC's power feeder cables (i.e., consistent with what Qwest
1270 refers to as the "power order"). The information that is available in this record and the
1271 records of those other proceedings as to how Qwest sizes its power plant capacity are
1272 Qwest's technical documentation and the testimony of Mr. Ashton (and Qwest witness
1273 Mr. Hubbard before him), both of which suggest that power plant should be sized based
1274 on the List 1 drain (i.e., usage at peak demand) for the entire central office. Mr. Ashton
1275 himself, in Utah, testified that if Qwest knew the List 1 drain for McLeodUSA's
1276 equipment (information that is available to Qwest), it should use that information, and
1277 NOT the size of McLeodUSA's feeder cables, to size its power plant. As such, Ms.
1278 Million's complaint simply isn't based in fact. The truth of the matter is that Qwest does
1279 not appear to augment its power plant in relation to the CLEC's "order" relative to power
1280 feeder cables, and hence, the CLEC's order of 500 amps would not, in my table on page
1281 5, require additional power plant capacity as long as the existing capacity (in this
1282 example 1,000 amps) was sufficient to accommodate McLeodUSA's anticipated usage
1283 (i.e., 100 amps). Therefore, my table is accurate and Ms. Million's claims to the contrary
1284 are based upon what appears to be her misunderstanding of Qwest's actual engineering
1285 practices.

1286

1287 **Q. SHOULD THE COMMISSION BE CONCERNED THAT QWEST IS NOT**
1288 **PAYING ANYTHING FOR ITS OWN USAGE OF DC POWER PLANT?**

1289 A. Yes, I would think there is a significant likelihood that Qwest is substantially over
1290 recovering DC Power Plant costs to the point that it is recovering the entire cost of DC

1291 Power plant contemplated by the cost study from CLECs, and therefore, is getting DC

1292 Power plant to serve its own customers basically for free.

1293

1294 **Q. PLEASE EXPLAIN.**

1295 A. We know that there are multiple collocators in many Washington central offices, and we
1296 know that List 1 drain is somewhere around 40% of List 2 drain. By charging each
1297 collocator at the List 2 drain associated with its power cable order, while sizing its power
1298 plant, and therefore, incurring cost, at List 1 drain, it takes only a few orders for
1299 distribution cables from CLECs before Qwest recoups the entire cost of power plant,
1300 which necessarily means that Qwest, the largest power user in the CO, essentially gets
1301 DC Power for free.

1302

1303 **Q. DOES THIS CONCLUDE YOUR REBUTTAL TESTIMONY?**

1304 A. Yes, it does.