

**BEFORE THE  
WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION**

In the Matter of the Petition of:

**QWEST CORPORATION**

To Initiate a Mass-Market Switching and  
Dedicated Transport Case Pursuant to the  
Triennial Review Order.

Docket No. UT-033044

**REBUTTAL TESTIMONY OF**

**RICHARD CABE**

**ON BEHALF OF**

**WORLDCOM, INC. (MCI)**

**February 2, 2004**

**REDACTED**

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1

**I. INTRODUCTION**

2

**Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.**

3

A. My name is Richard Cabe and my business address is 221 I Street, Salida, Colorado.

4

**Q. ARE YOU THE SAME RICHARD CABE WHO FILED DIRECT  
5 TESTIMONY IN THIS PROCEEDING?**

6

A. Yes.

7

**Q. PLEASE SUMMARIZE YOUR INITIAL RESPONSE TO QWEST'S  
8 EVIDENCE PRESENTED SO FAR IN THIS CASE.**

9

A. In this case, the Commission will decide whether the FCC's national finding of

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impairment with respect to local switching is overcome by evidence specific to markets in

11

the State of Washington. In so doing, the Commission should not lose sight of the fact that

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the local switching UNE performs the crucial function of providing CLECs with efficient

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access to loops.<sup>1</sup> In a very real sense, impairment is not so much about the switching

14

function itself, as about CLECs' impaired access to local loops by any means *other* than

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through Qwest's local switch. Thus, CLECs are impaired without local switching not

16

because they cannot self-provision local switching, but rather because use of ILEC local

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switching is the most efficient, and operationally the only effective means of access to

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<sup>1</sup> "We have made detailed findings that competitors are impaired without access to incumbents' voice-grade local loops. Indeed, no party seriously contends that competitors should be required to self-deploy voice-grade loops. Thus, for the typical entrant, entry into the mass market will likely require access to the incumbent's loops, using the UNE-L strategy. As described below, this strategy raises operational and economic difficulties associated with accessing the loop. *Indeed, as discussed above, a crucial function of the incumbent's local circuit switch is to provide a means of accessing the local loop.*" *Triennial Review Order* ¶ 439 (footnotes omitted) (emphasis added).

18 Qwest's loops.<sup>2</sup> While the acknowledged barriers to entry associated with CLECs' inferior  
19 access to ILEC loops without the local switching UNE may or may not rise to the impairment  
20 standard defined in the *Triennial Review Order*, the Commission's focus in this proceeding  
21 should be directed to evidence that CLECs have actually, or can potentially, overcome those  
22 barriers to accessing loops.

23 **Q. DO YOU HAVE A RESPONSE TO THE TESTIMONY OF MR.**  
24 **REYNOLDS AND MR. SHOOSHAN REGARDING WIRELESS**  
25 **SERVICES?**

26 A. Yes. The Commission considered similar evidence in Qwest's recent competitive  
27 classification case and determined that it merited "light" weight.<sup>3</sup> In its Order issued in that  
28 case, the Commission discussed the increasing complexity of telecommunications markets  
29 and the subtleties of competition among "different providers, different services, different  
30 customer groups, different technologies, and different niches."<sup>4</sup> The Commission determined  
31 that it would rely on evidence based on its "relevance to the critical questions in the case."<sup>5</sup>  
32 In particular, critical questions related to competition for retail services. The Commission  
33 found that "wireless, VOIP and other intermodal services are further along the continuum of

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<sup>2</sup> For example, Mr. Weber describes the technological ease of CLECs providing the switching function, and the Direct Testimony of William R. Easton responds to the question "How do CLECs gain access to unbundled switching today?" In fact, CLECs may not want access to Qwest's unbundled switching for its own sake, but for its unique capacity to "provide a means of accessing the local loop" that does not impose the operational and economic barriers of other means of access to loops.

<sup>3</sup> *Order Granting Competitive Classification*, Order No. 17, WUTC Docket No. UT-030614, December 22, 2003, (hereinafter "*Order Granting Competitive Classification*"), ¶ 54.

<sup>4</sup> *Id.* ¶ 51.

<sup>5</sup> *Id.*

34 competitive substitutes,” and should receive “light” weight in evaluating the critical  
35 questions of the case.<sup>6</sup>

36         The critical questions of this case are not about retail competition, but about CLECs’  
37 ability to compete without access to wholesale switching as a means of accessing UNE loops.  
38 Evidence of wireless and VOIP competition is clearly not relevant at all to a trigger analysis,  
39 and Qwest does not claim otherwise. The analysis is a bit more complex with respect to  
40 potential deployment. Here, the Commission seeks evidence of the feasibility of business  
41 plans that would allow CLECs to compete without access to the local switching UNE.  
42 Evidence of the role of wireless and VOIP technologies in such business plans *might* be  
43 relevant if it could inform the Commission’s judgment regarding the suitability of the market  
44 for “multiple, competitive supply.”<sup>7</sup> The evidence presented, however, does not go to this  
45 question, but rather is of a general nature describing services that the Commission has found  
46 are “further along the continuum of competitive substitutes.” As such, it merits even less  
47 weight in the Commission’s deliberations on the critical questions of this case than it did in  
48 the competitive classification case.

49 **Q.     WHAT IS AT STAKE IN THIS PROCEEDING?**

50 A.     If the Commission finds no impairment before operational barriers to entry are  
51 removed, or in areas where UNE-L service to the general public is unlikely to be  
52 economically feasible, consumers will be denied the benefits of competition from CLECs  
53 that can only access those customers’ loops economically through the use of UNE-P. In that

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<sup>6</sup> *Id.* ¶ 54.

<sup>7</sup> *Triennial Review Order* ¶ 506.

54 case, the substantial number of customers presently served by UNE-P CLECs would face the  
55 prospect that their gains from competition would be rescinded.

56 **Q. HAS THE COMMISSION RELIED ON THE EXISTENCE OF UNE-P**  
57 **COMPETITION IN RECENT DECISIONS?**

58 A. Yes. The Commission's conclusion in its recent *Order Granting Competitive*  
59 *Classification* in Docket No. UT-030614 rests heavily on the existence and continued  
60 availability of UNE-P competition.<sup>8</sup>

61 **Q. BY WAY OF INTRODUCTION, WHAT ARE THE MAJOR**  
62 **DIFFERENCES AMONG THE FRAMEWORKS PROPOSED FOR**  
63 **THE FCC'S TRIGGER ANALYSIS IN THE FIRST ROUND OF**  
64 **TESTIMONY?**

65 A. Each of the frameworks proposed for trigger analysis contains two crucial elements: a  
66 definition of markets, and a means to determine whether an existing CLEC qualifies to be  
67 counted toward the retail trigger threshold. My testimony is in substantial agreement with  
68 that of AT&T regarding the determination as to whether a CLEC should be counted toward  
69 the retail trigger threshold: both AT&T and MCI propose that there "are a number of  
70 circumstances in which a CLEC might erroneously be counted toward meeting the trigger  
71 test."<sup>9</sup> Qwest, on the other hand, seems to require only "unaffiliated CLECs" serving mass  
72 market customers via self-provisioned local switching without giving effect to the other  
73 requirements of the *Triennial Review Order*.<sup>10</sup>

74 While I discuss market definition in detail below, the implications of these different  
75 approaches to identifying a self-provisioning CLEC must be understood in the context of the

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<sup>8</sup> *Order Granting Competitive Classification*.

<sup>9</sup> Direct Testimony of William H. Lehr and Lee L. Selwyn at 52, lines 4-5.

76 markets the Commission will use for the trigger test. Qwest and AT&T both propose  
77 geographic markets comprised of many wire centers, while I propose that each wire center  
78 should be analyzed as a separate market. To illustrate the different implications of these two  
79 elements of the analytical framework, consider a large geographic area with a few wire  
80 centers each containing several self-provisioning CLECs and the other wire centers  
81 containing no self-provisioning CLECs.<sup>11</sup> In a large geographic “market,” Qwest would  
82 count self-provisioning CLECs that serve customers in only a few wire centers, or possibly  
83 only in *part* of a single wire center. On that basis, Qwest would recommend a finding of no  
84 impairment, removing its obligation to offer the unbundled switching element in the entire  
85 large geographic area, *even though the area includes many wire centers not served by self-*  
86 *provisioning CLECs.* Under the same set of facts, AT&T would not count CLECs that serve  
87 only a small portion of the large geographic “market,” and would recommend a finding of  
88 impairment, even though some wire centers may have several self-provisioning CLECs that  
89 otherwise offer evidence of having overcome barriers to entry, albeit in a restricted area.

90 I agree with AT&T that CLECs should not be counted toward the trigger threshold  
91 unless they credibly hold themselves out to serve the entire market, however defined; but the  
92 implication is very different under my proposed market definition based on individual wire  
93 centers. Under a wire center market definition, the Commission would not face the  
94 alternatives of either finding no impairment in a large geographic area containing many wire

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<sup>10</sup> Direct Testimony of Mark S. Reynolds at 5, line 15.

95 centers without self-provisioning CLECs, as proposed by Qwest, or finding impairment in an  
96 area containing some wire centers with self-provisioning CLECs having overcome barriers to  
97 entry, as would result under AT&T's framework.

98         Rather, under the framework I propose, the Commission could find no impairment in  
99 those wire centers with qualifying, self-provisioning CLECs and simultaneously find  
100 impairment in those wire centers without self-provisioning CLECs. As I discuss in detail  
101 below, the current state of competition from CLECs operating without the local switching  
102 UNE does not satisfy the retail trigger test and justify a finding of no impairment, even for  
103 the most attractive individual wire centers. Moreover, the evidence suggests that potential  
104 deployment without access to the switching UNE is not economic at all in most wire centers  
105 and very questionable in the most economically attractive wire centers. Nevertheless, the  
106 framework I propose makes it easier to satisfy the trigger test than the approach favored by  
107 AT&T, yet does not allow geographically restricted competition to support a broad finding of  
108 no impairment, as would result from Qwest's approach.

109 **Q. HOW IS YOUR REBUTTAL TESTIMONY ORGANIZED?**

110 A. In the section following this introduction, I assume for the sake of argument that  
111 Qwest's factual allegations are correct and I show that the alleged facts do not support  
112 Qwest's claim that no impairment exists in certain Washington MSAs. The subsequent  
113 sections of my rebuttal testimony point out errors in Qwest's market definition analysis,

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<sup>11</sup> This scenario must be regarded as hypothetical, because existing evidence does not show many self-provisioning CLECs holding themselves out to serve more than a restricted set of mass-market customers, even in the relatively few wire centers in which self-provisioning CLECs are located.



114 respond to Qwest's analysis of market participants, and correct Qwest's overly optimistic  
115 choices of inputs and interpretation of results from Qwest's potential deployment model.

116 **Q. PLEASE PROVIDE AN OVERVIEW OF UNE-L CLECS MARKET**  
117 **ENTRY PATTERNS.**

118 A. UNE-L CLECs have won a very small fraction of the mass market in Washington.  
119 CLEC customers are almost exclusively business customers, and all but two UNE-L CLECs  
120 offer service *only* to businesses. Of those two UNE-L CLECs claiming to offer service to  
121 residential customers, one of them, SBC Telecom, does so under the requirements of a quid  
122 pro quo for its parent company's merger, and provides no evidence of an independent CLEC  
123 evaluation of market entry conditions. UNE-L entry occurs in larger wire centers with  
124 greater percentages of business customers, but not elsewhere, and there is no UNE-L entry in  
125 25 of the 60 wire centers where Qwest argues for a finding of no impairment.

126 **Q. DO YOU HAVE AN OPINION AS TO THE FORCES THAT ARE**  
127 **CAUSING THIS PATTERN OF ENTRY?**

128 A. This pattern of entry is consistent with the existence of operational and economic  
129 barriers to entry that have been overcome with respect to business customers – but not  
130 residential customers – at least in some more profitable wire centers. I have seen no  
131 evidence of recent expansion of UNE-L CLECs into new wire centers, and very little  
132 evidence of movement of UNE-P residential customers to CLEC facilities, even when the  
133 CLEC has a collocation in place to serve business customers. The lack of expansion into  
134 new wire centers suggests that early UNE-L entrants may have been overly optimistic about  
135 their prospects; the lack of movement of UNE-P residential customers onto UNE-L facilities  
136 strongly suggests that CLECs are unable to overcome the “hot cut” barrier that formed the  
137 basis for the FCC's national finding of impairment.

138 **Q. IF YOUR INTERPRETATION IS CORRECT, IS IT IN QWEST'S**  
139 **INTEREST TO ARGUE FOR A FINDING OF NO IMPAIRMENT?**

140 A. Yes. In any instances in which CLECs are actually impaired without access to UNE-  
141 P, Qwest will benefit from a finding of no impairment by virtue of raising its rivals' costs.

142 **Q. IS IT IN QWEST'S INTEREST TO ARGUE FOR A FINDING OF NO**  
143 **IMPAIRMENT IF YOU ARE MISTAKEN, AND CLECS ACTUALLY**  
144 **ARE NOT IMPAIRED WITHOUT ACCESS TO UNE-P?**

145 A. No. If CLECs are not impaired without access to UNE-P in a particular wire center,  
146 CLECs will prefer to serve customers over their own facilities, or at least not over the  
147 facilities of a hostile rival, insofar as possible. In any situation in which CLECs are actually  
148 not impaired without UNE-P, Qwest has an interest in keeping CLEC traffic on Qwest  
149 switches, thereby receiving revenue that would be lost if the CLEC chooses to use a UNE-L  
150 strategy. Further, as I discussed in my direct testimony, Qwest will face more rigorous  
151 competition when UNE-L CLECs are established, and it has no interest in hastening the  
152 advent of a UNE-L competitive environment, if it is actually feasible under current  
153 conditions.

154 **II. QWEST'S EVIDENCE DOES NOT SUPPORT ITS CLAIMS**

155 **Q. WHAT IS THE PURPOSE OF THIS SECTION OF YOUR**  
156 **TESTIMONY?**

157 A. In this section I will show that, even if the Commission were to accept Qwest's  
158 factual allegations as correct, Qwest's claimed showing does not come close to overcoming  
159 the FCC's national finding of impairment or to supporting the goals of the  
160 Telecommunications Act. My testimony addresses the retail trigger analysis and the extent  
161 of economic barriers to entry. Issues associated with operational impairment are addressed in  
162 the testimony of MCI witnesses Mark Stacy and Cedric Cox.

163 **Q. GENERALLY, WHICH OF QWEST'S CLAIMS ARE**  
164 **UNSUPPORTED, AND WHY DO QWEST'S ALLEGATIONS FAIL**  
165 **TO SUPPORT THESE CLAIMS?**

166 A. Qwest would have the Commission "extrapolate" from alleged actual or potential  
167 competition in some wire centers to reach a finding of no impairment over a larger area,  
168 including wire centers for which Qwest does not even allege the existence of actual or  
169 economically feasible potential competition. This approach is in direct conflict with the  
170 requirements of the *Triennial Review Order*. At paragraph 520, the *Triennial Review Order*  
171 concludes:

172 Before finding "no impairment" in a particular market, therefore, state  
173 commissions must consider whether entrants are likely to achieve  
174 sufficient volume of sales *within each wire center*, and in the entire  
175 area served by the entrant's switch, to obtain the scale economies  
176 needed to compete with the incumbent.

177 (Emphasis added).

178 Thus, if markets are defined as areas larger than wire centers, which I do not  
179 recommend, the *Triennial Review Order* simply does not allow the analyst to ignore those  
180 wire centers that appear not to be "suitable for multiple competitive supply."<sup>12</sup> The *Triennial*  
181 *Review Order* contemplates evidence either in the form of actual self-provisioning CLECs or  
182 in the form of a business case analysis showing the economic feasibility of potential  
183 deployment. In each of the MSAs in which Qwest claims no impairment, there are wire  
184 centers – a total of 16 in all – for which Qwest does not claim the existence of a single UNE-L  
185 provider, *and* for which Qwest's potential deployment model finds that entry is not

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<sup>12</sup> *Triennial Review Order* ¶ 506.

186 economically feasible.<sup>13</sup> Qwest would nevertheless have the Commission ignore the *Triennial*  
187 *Review Order's* admonition to pay attention to individual wire centers in order to find no  
188 impairment without any evidence that entry is a fact or even a realistic future possibility.

189 **A. Trigger Analysis**

190 **Q. PLEASE PROVIDE AN OVERVIEW OF THE TRIGGER ANALYSIS**  
191 **PRESCRIBED IN THE TRIENNIAL REVIEW ORDER.**

192 A. As I described in my Direct Testimony, the FCC's prescribed trigger analysis is  
193 intended to provide "bright-line rules" that "can avoid the delays caused by protracted  
194 proceedings and can minimize administrative burdens."<sup>14</sup> If the Commission finds that the  
195 triggers are not satisfied, then the Commission will proceed to analysis of potential  
196 deployment – or Qwest can re-file after sufficient actual deployment materializes. For these

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<sup>13</sup> The count of wire centers for which Qwest offers no evidence in favor of a finding of no impairment is taken from the summary tables in the Direct Testimony of Harry M. Shooshan. I must emphasize that in this section of my rebuttal testimony I am not questioning the evidence presented in these tables, but the tables themselves suggest that the evidence is questionable. The tables show a contrast between actual deployment and Qwest's business case model's finding of a positive business case. Qwest's business case model almost invariably finds that CLECs are missing opportunities to profitably enter wire centers that currently have no UNE-L provider. This contrast would be consistent with an environment in which UNE-L service being profitable, attracting new capital, and expanding to new wire centers – not one of no expansion, financial distress, and consolidation. Of the **BEGIN HIGHLY CONFIDENTIAL \*\*\* [REDACTED] \*\*\* END HIGHLY CONFIDENTIAL** Qwest wire centers shown on Qwest's highly confidential response to WUTC Bench Request 11 as having no stand-alone DS-0 level UNE loops in service at the end of January, 2003, **BEGIN HIGHLY CONFIDENTIAL \*\*\* [REDACTED] \*\*\* END HIGHLY CONFIDENTIAL** While growth is apparent in the number of UNE-L loops in wire centers with collocations in place **BEGIN HIGHLY CONFIDENTIAL \*\*\* [REDACTED] \*\*\* END HIGHLY CONFIDENTIAL** CLECs are simply not expanding into those wire centers that Qwest's business case model identifies as attractive.

<sup>14</sup> *Triennial Review Order* ¶ 498.

197 reasons, the Commission should err on the side of caution in finding that the trigger has been  
198 satisfied.

199 **Q. PLEASE BRIEFLY RESTATE THE TESTS ON SELF-**  
200 **PROVISIONING CLEC'S MARKET PARTICIPATION NEEDED TO**  
201 **SATISFY THE REQUIREMENTS OF THE *TRIENNIAL REVIEW***  
202 ***ORDER*.**

203 A. The flowchart attached to my Direct Testimony as Exhibit RC-3 captures rules set  
204 forth by the FCC in the *Triennial Review Order* under which a carrier can be considered as a  
205 triggering company for mass-market switching only if the company self-deploys switching to  
206 provide local service to mass-market customers, and meets specific requirements in the  
207 following four areas: (1) corporate ownership; (2) active and continuing market participation;  
208 (3) intermodal competition; and (4) scale and scope of market participation. Applying these  
209 criteria rigorously in a properly defined market is essential to ensuring that “[i]f the triggers  
210 are satisfied, the states need not undertake any further inquiry, *because no impairment*  
211 *should exist in that market.*”<sup>15</sup>

212 Again, I discussed the FCC rules at length in my direct testimony and will not repeat  
213 that discussion here.

214 **1. Geographic Coverage of Claimed Triggering CLECs**

215 **Q. DOES QWEST CLAIM THAT CLECS HAVE ACTUALLY**  
216 **DEPLOYED FACILITIES TO SERVE THE ENTIRE GEOGRAPHIC**  
217 **AREAS OF MSAs FOR WHICH IT MAKES ITS “NO**  
218 **IMPAIRMENT” CLAIMS?**

219 A. No. Of the 60 wire centers that comprise the MSAs in which Qwest claims CLECs  
220 are not impaired without access to the local switching UNE, Qwest claims that the retail

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<sup>15</sup> *Id.* ¶ 494 (emphasis added).

221 trigger is satisfied in only 16. Qwest refers to actual competition that falls short of the trigger  
222 threshold in an additional 28 wire centers. Such evidence should be evaluated and given  
223 appropriate weight in a potential deployment analysis, but has no relevance to the prescribed  
224 trigger analysis.

225 **Q. IS IT IMPORTANT THAT THE COMPANIES QWEST OFFERS AS**  
226 **SATISFYING THE REQUIREMENTS OF THE TRIGGER**  
227 **ANALYSIS DO NOT ACTUALLY SERVE THE ENTIRE MSA?**

228 A. Yes. First, in paragraph 520 of the *Triennial Review Order*, quoted above, the FCC  
229 admonished the state commissions to give specific attention to wire centers in which CLECs  
230 may not be able to achieve sufficient economies of scale to allow them to compete with  
231 Qwest. In addition, the FCC also stated that “if competitors with their own switches are only  
232 serving certain geographic areas, the state commission should consider establishing those  
233 areas to constitute separate markets.”<sup>16</sup> In the present instance, competitors with their own  
234 switches are serving only smaller geographic areas, within the MSAs proposed by Qwest.  
235 Those areas being served (and those not being served) are best, although not perfectly,  
236 defined by wire center serving areas. This circumstance clearly suggests establishing  
237 separate markets that reflect the wire centers being served and those not being served.

238 **2. Scale and Scope of Claimed CLECs’ Market Participation**

239 **Q. WHAT IS THE POINT OF EXAMINING THE SCALE AND SCOPE**  
240 **OF CLECS’ PARTICIPATION IN THE MARKET AS PART OF THE**  
241 **COMMISSION’S RETAIL TRIGGER ANALYSIS?**

242 A. As I explained in my Direct Testimony, Section IV.B.4, a CLEC should not be  
243 counted for the trigger analysis unless the nature of its market participation affords evidence

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<sup>16</sup> *Id.* at n.1537.

244 that: (1) it is capable of holding itself out to provide retail local exchange service to all, or  
245 virtually all, mass-market customers within the relevant market; and (2) the volumes at which  
246 it is presently providing service demonstrate that it has overcome the hot cut barrier to entry,  
247 as well as all of the other economic and operational barriers to entry that the FCC identified  
248 as appropriate topics for consideration in a potential deployment analysis. Otherwise, the  
249 trigger analysis will have failed to perform its function of demonstrating that “the states need  
250 not undertake any further inquiry, because no impairment should exist in that market.”<sup>17</sup>

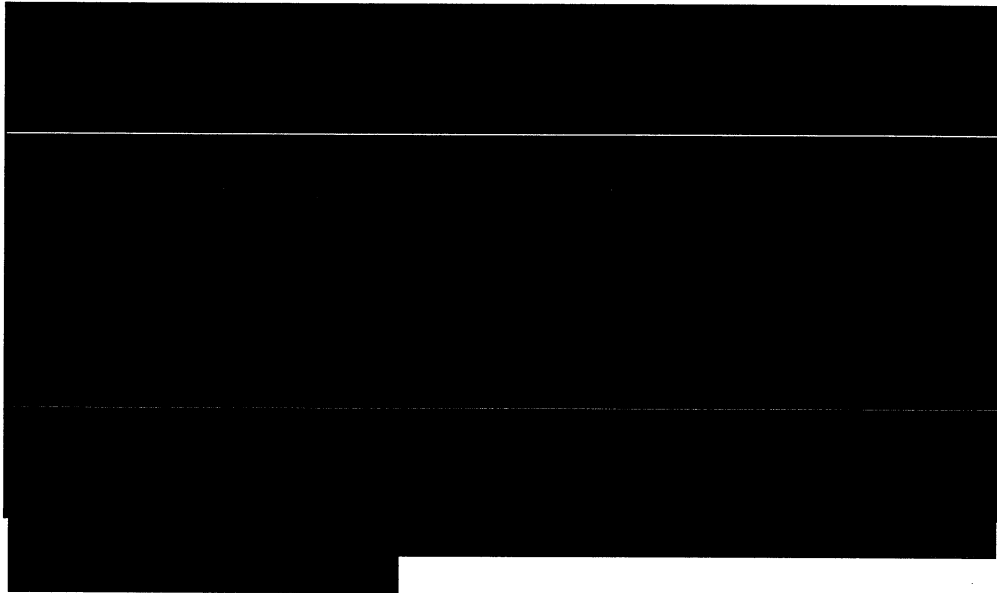
251 **Q. HOW DO YOU APPLY THIS TEST FOR THE MSA MARKETS**  
252 **QWEST HAS PROPOSED?**

253 A. Regarding an analysis under Qwest’s proposed MSA market definition, I simply call  
254 the Commission’s attention to the market participation of the *entire group of active CLECs*.  
255 The following table describes the scale of UNE-L CLEC participation, in the aggregate, in  
256 the MSAs in which Qwest claims that requesting carriers are not impaired without access to  
257 the local switching UNE. The first column of the table shows the total of UNE-L loops, *of*  
258 *all CLECs*, as a percentage of Qwest DS0 lines in the MSA. Only in the case of the  
259 Vancouver portion of the Portland/Vancouver MSA does the number of stand-alone UNE  
260 loops in use by all CLECs rise to the level of **BEGIN HIGHLY CONFIDENTIAL**  
261 **\*\*\* [REDACTED] \*\*\* END HIGHLY CONFIDENTIAL** percent.

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<sup>17</sup> *Id.* ¶ 494.

262 **BEGIN HIGHLY CONFIDENTIAL \*\*\***



263  
264

265 **\*\*\* END HIGHLY CONFIDENTIAL**

266 **Q. HOW DO YOU EVALUATE A NUMBER LIKE THE [BEGIN**  
267 **HIGHLY CONFIDENTIAL] \*\*\* [REDACTED] \*\*\* [END HIGHLY**  
268 **CONFIDENTIAL] PERCENT SHOWN FOR VANCOUVER?**

269 **A.** First, note that this number is the percentage of lines won by all UNE-L CLECs in the  
270 market, not just one market participant. Thus, the strongest evidence that the market is one  
271 in which CLECs have actually entered and overcome barriers to entry (and there is no need  
272 for the Commission to proceed to a potential deployment analysis) would be three CLECs of  
273 equal size.<sup>18</sup> This would mean that each CLEC had won **BEGIN HIGHLY**  
274 **CONFIDENTIAL \*\*\* [REDACTED] \*\*\* END HIGHLY CONFIDENTIAL** of the market. To put  
275 this **BEGIN HIGHLY CONFIDENTIAL \*\*\* [REDACTED] \*\*\* END HIGHLY**  
276 **CONFIDENTIAL** in context, the scenario for growth of the UNE-L CLEC in Qwest's

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<sup>18</sup> Presuming that three CLECs are of equal size yields the highest market share possible for each of the minimum number of CLECs necessary to satisfy the retail trigger.



277 potential deployment model would have a firm grow to **BEGIN HIGHLY**  
278 **CONFIDENTIAL \*\*\* [REDACTED] \*\*\* END HIGHLY CONFIDENTIAL** of the market in about  
279 four and a half months. Thus, the most generous interpretation of this aggregate market  
280 participation is that three CLECs have, over the last several years, accomplished the market  
281 penetration that Qwest's potential deployment model assumes to occur in about four and a  
282 half months. Comparable periods are indicated for the other MSAs in which Qwest claims  
283 that no impairment exists.

284 **Q. WHAT CONCLUSION DO YOU DRAW FROM THE SCALE OF**  
285 **MARKET PARTICIPATION IMPLIED BY QWEST'S EVIDENCE?**

286 A. In each of the six MSAs, Qwest identifies UNE-L CLECs that have, in the aggregate,  
287 won the business of a **BEGIN HIGHLY CONFIDENTIAL \*\*\* [REDACTED] \*\*\* END HIGHLY**  
288 **CONFIDENTIAL** fraction of mass-market customers. It is implausible to suggest that such  
289 tiny percentages affords the Commission with any comfort that a "no impairment" finding is  
290 justified.

291 **Q. REGARDING THE SCOPE OF UNE-L CLEC PARTICIPATION IN**  
292 **QWEST'S PROPOSED MARKETS, ARE UNE-L CLECS**  
293 **GENERALLY OFFERING SERVICE TO THE GENERAL**  
294 **POPULATION OF TELECOMMUNICATIONS USERS IN THOSE**  
295 **MARKETS?**

296 A. **BEGIN HIGHLY CONFIDENTIAL \*\*\* [REDACTED]**  
297 **[REDACTED]**  
298 **[REDACTED]**  
299 **[REDACTED]**  
300 **[REDACTED]**  
301 **[REDACTED]**

302 [REDACTED] \*\*\* END HIGHLY  
303 CONFIDENTIAL. This level of market penetration, for either company, is certainly no  
304 evidence that operational and economic barriers to entry have been overcome. Further, T6's  
305 entry in 10 Seattle wire centers was a quid pro quo for approval of its merger. T6 incurred  
306 the cost of deploying switching capacity and establishing collocations to satisfy the  
307 conditions placed on its merger, and I recommend that the Commission not attach any weight  
308 to the use of those facilities to serve a BEGIN HIGHLY CONFIDENTIAL \*\*\* [REDACTED]  
309 [REDACTED] \*\*\* END HIGHLY CONFIDENTIAL of mass-market customers. T6's entry  
310 provides absolutely no evidence of a company successfully acting on its expectations that it  
311 can overcome operational and economic barriers to entry and profitably serve mass-market  
312 customers.

313 Q. PLEASE STATE YOUR CONCLUSION REGARDING THE SCOPE  
314 OF UNE-L SERVICE OFFERINGS.

315 A. Of more than a million residential lines in the six MSAs for which Qwest claims  
316 CLECs are not impaired without access to the local switching UNE, BEGIN HIGHLY  
317 CONFIDENTIAL \*\*\* [REDACTED] \*\*\* END HIGHLY CONFIDENTIAL CLECs report serving a  
318 total of BEGIN HIGHLY CONFIDENTIAL \*\*\* [REDACTED] \*\*\* END HIGHLY  
319 CONFIDENTIAL residential lines using the UNE-L strategy. Such a tiny amount of  
320 experience in using the UNE-L strategy to serve residential customers, together with the fact  
321 that most CLECs explicitly decline to serve residential customers, cannot be regarded as  
322 reasonable evidence that CLECs are not impaired without access to the local switching UNE.

323 **B. Potential Deployment**

324 **Q. PLEASE BRIEFLY DISCUSS THE FCC'S PRESCRIBED**  
325 **POTENTIAL DEPLOYMENT ANALYSIS.**

326 A. Under the FCC's prescribed potential deployment analysis the Commission must  
327 reach a decision regarding each market's "suitability for multiple competitive supply"<sup>19</sup> after  
328 considering operational barriers, economic barriers and giving suitable weight to any actual  
329 deployment in the market. As I noted in my Direct Testimony, economic analysis of the  
330 feasibility of entry probably will not consider extraordinary difficulties associated with  
331 operational barriers, such as the hot cut barrier that justified the FCC's national finding of  
332 impairment. Such difficulties can result in extraordinary costs, or damage to a carrier's  
333 reputation and revenue prospects.

334 **Q. DOES QWEST'S POTENTIAL DEPLOYMENT MODEL**  
335 **INCORPORATE EXTRAORDINARY COSTS OR DIMINISHED**  
336 **REVENUE ASSOCIATED WITH OPERATIONAL PROBLEMS**  
337 **WITH UNE-L SERVICE?**

338 A. No. I am not aware of any attempt to quantify the cost or revenue impacts of making  
339 the transition from an environment where UNE-L entry is impaired by operational barriers, to  
340 an environment in which operational barriers have been removed. Thus, as I discussed in my  
341 Direct Testimony, any business case analysis must be understood as proceeding under the  
342 assumption – an assumption I would dispute – that operational barriers have been removed.

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<sup>19</sup> *Id.* ¶ 506.

343 1. **CLECs Will Not Enter Without a Positive Business Case**

344 **Q. WILL CLECs OFFER SERVICE AT WIRE CENTERS WHERE A**  
345 **REALISTIC BUSINESS CASE ANALYSIS PREDICTS THAT THE**  
346 **NET PRESENT VALUE OF THE INVESTMENT IS NEGATIVE?**

347 A. No. This simply will not happen. The nature of the investment decision for a UNE-L  
348 CLEC is to decide, on a wire center basis, whether to sink capital into providing service  
349 throughout that wire center. A recent response of Allegiance Telecom of Florida to an  
350 interrogatory from BellSouth is particularly articulate.

351 The single most important criterion for Allegiance in determining  
352 where to build a collocation is the number of lines served by the  
353 individual wire center. Given the costs of collocation construction,  
354 equipment, power, and the like, a CLEC must be reasonably confident  
355 it can acquire enough customers in a wire center to cover those costs  
356 and earn a profit in order to proceed with construction of the  
357 collocation. Allegiance generally has not built collocations in wire  
358 centers with fewer than 9,000 – 10,000 business lines.<sup>20</sup>

359 **Q. MR. SHOOSHAN SUGGESTS THAT CLECs MIGHT CHOOSE TO**  
360 **ENTER A WIRE CENTER FOR WHICH ITS BUSINESS CASE**  
361 **PREDICTS A LOSS IN ORDER TO AVOID THE “ILL WILL” OF**  
362 **CUSTOMERS WHO RECEIVE ADVERTISING MESSAGES**  
363 **INTENDED FOR THOSE IN NEARBY AREAS WHERE SERVICE**  
364 **IS AVAILABLE. IS THIS PLAUSIBLE?**

365 A. No. It is very common for companies, including Qwest, to advertise in media that  
366 cover areas in which the products offered are not available. Caveats like: “some products  
367 and services are not available in all locations” are common.<sup>21</sup> I understand that Qwest

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<sup>20</sup> BellSouth Telecommunications Inc.’s Second Set of Interrogatories to Allegiance Telecom of Florida, Inc., Docket No. 030851-TP, attached as Exhibit RC-6.

<sup>21</sup> See SBC Telecom’s web site announcement of its Seattle serving area, attached as Exhibit RC-7. Apparently SBC is not deterred by the prospect of incurring the “ill will” of those not in the handful of wire centers in which SBC actually offers service. Note also that there are precisely ten communities mentioned, as required by the SBC – Ameritech Merger Agreement. SBC has not yet found it profitable to offer service in the eleventh community.

368 commonly advertises in Seattle print and television media that include Verizon serving areas  
369 within their audiences. MCI advertises its Neighborhood offerings on national television.  
370 That advertising covers many areas in which the advertised service is not available, yet MCI  
371 is not dissuaded by the fear of incurring “ill will,” even among its long distance customers in  
372 areas where the Neighborhood is not available.

373         There is a point, however, to the fact that advertising is subject to some economies of  
374 scale. The availability of UNE-P in areas where CLECs are impaired without access to the  
375 local switching UNE ensures that CLECs can offer service over a wide geographic area,  
376 using UNE-P where impaired and UNE-L where not impaired, and thereby take advantage of  
377 economies of scale in advertising.<sup>22</sup> If the Commission mistakenly finds no impairment in an  
378 area in which CLECs actually *are* impaired without the local switching UNE, then the  
379 CLECs’ cost disadvantage in nearby areas will be exacerbated by the inability to share the  
380 cost of advertising between remaining areas served – whether by UNE-P or by UNE-L – and  
381 the area in which UNE-P is no longer available but UNE-L is not feasible.

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<sup>22</sup> CLECs will continue to have Mr. Shooshan’s “ill will” problem if they offer additional features or lower pricing for “on-net” locations that are impossible or uneconomic when service is provided through the ILEC’s switch using UNE-P. Since consumers are accustomed to various restrictions on availability of offerings, I am confident it is not a big problem.

382 Q. MR. SHOOSHAN GOES ON TO SPECULATE THAT A NEGATIVE  
383 BUSINESS CASE FOR A CLEC IN A PARTICULAR WIRE  
384 CENTER SUGGESTS THAT “IT IS LIKELY THAT QWEST IS NOT  
385 SERVING THE CUSTOMERS IN THESE WIRE CENTERS  
386 PROFITABLY EITHER.”<sup>23</sup> IS THIS A REASONABLE  
387 INFERENCE?

388 A. No. If there were two companies, *with similar costs*, each in a position to serve a  
389 group of customers, and if it were determined that one of the companies could not serve  
390 those customers profitably, it would be reasonable to conclude that it is probably unprofitable  
391 for the other company to serve the same group of customers. However, the premise that  
392 costs are similar is not satisfied in the present case.

393 There can be no question that CLECs operate at a substantial cost disadvantage in  
394 serving customers without access to the local switching UNE, at least in small wire centers  
395 such as those that Mr. Shooshan mentions in the answer cited. In the Triennial Review  
396 proceeding the FCC noted “[a]ll the studies found that in such wire centers, entry would be  
397 much more expensive for the competitive LEC than for the incumbent, or simply would be  
398 uneconomic.”<sup>24</sup> Thus, the fact that the CLECs’ cost disadvantage rises to the level of  
399 making entry uneconomic – in Qwest’s own study – offers no support for Mr. Shooshan’s  
400 inference that Qwest must be selling at a loss in those wire centers. Mr. Shooshan should  
401 take the result at face value: there are wire centers – 17, or almost a third, of the 60 wire  
402 centers in which Qwest would have the Commission find no impairment – where UNE-L  
403 entry has not occurred and is unlikely to occur soon because it is simply uneconomic.

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<sup>23</sup> Direct Testimony of Harry M. Shooshan at 56, lines 8-9.

<sup>24</sup> *Triennial Review Order* at ¶ 484.

404                   2.       **Uncertainty and Sunk Costs are Not Considered**

405   **Q.     DOES QWEST’S POTENTIAL DEPLOYMENT MODEL CONSIDER**  
406   **UNCERTAINTY?**

407   A.     No.   Qwest’s model assumes that the economic, technological, and competitive  
408   environment will stay the same for 25 years, and that everything will go as planned. In  
409   Qwest’s world, the CLEC can accurately look ahead and size equipment accordingly; the  
410   CLEC does not need to wonder whether it will be able to win customers away from the  
411   incumbent and other CLECs; it does not need to wonder what customer acquisition costs it  
412   will have to incur to compete, or what price concessions it may have to make; it is not  
413   required to contemplate the possibility that the market may experience periods of volatility  
414   during which competitors vie for customers with targeted offers that lead to very high  
415   customer churn. The modeled CLEC is not concerned about the possibility that UNE prices  
416   might rise. This is an utterly unrealistic approach to a CLEC’s considerations regarding a  
417   very large investment decision, and it is inconsistent with the requirements of the *Triennial*  
418   *Review Order*: “In judging whether entry is economic, states must also consider how sunk  
419   costs and competitive risks affect the likelihood of entry.”<sup>25</sup>

420   **Q.     DOES QWEST’S MODEL DISTINGUISH SUNK COSTS AND**  
421   **ACCOUNT FOR THE INFLUENCE OF THE SUNK COST**  
422   **BARRIER TO ENTRY DISCUSSED IN THE TRIENNIAL REVIEW**  
423   **ORDER?**

424   A.     While Qwest’s model appears to include expected sunk costs, it does not account for  
425   the fact that “sunk costs, particularly when combined with scale economies, can pose a

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<sup>25</sup> *Id.* ¶ 517.

426 formidable barrier to entry.”<sup>26</sup> Indeed, in the modeled world, without uncertainty, sunk costs  
427 are no different than other investments, because there is no possibility that things may go  
428 wrong. In the real world, investors recognize that things may not go as planned and the firm  
429 may find it necessary to exit the market. The model includes a variety of sources of scale  
430 economies, the other ingredient in the “formidable barrier to entry.” Scale economies,  
431 primarily fixed costs incurred at the wire center level, that must be justified by the volume of  
432 customers at that wire center, explain the model’s finding of profitable entry in large wire  
433 centers, but not in small ones.

434 **Q. HOW DO INVESTORS ACCOUNT FOR SUNK COSTS AND SCALE**  
435 **ECONOMIES IN AN UNCERTAIN WORLD?**

436 A. The two most common approaches are to impose a high “hurdle rate” as the cost of  
437 capital required for the investment, or to require a very short payback period for the  
438 investment. However, Qwest’s model does not account in any way for the fact that “sunk  
439 costs also increase the cost of failure, so if there is a substantial risk of failure, entrants may  
440 be reluctant to take the risk, and investors may be reluctant to finance entry.”<sup>27</sup> As a  
441 consequence, the results of Qwest’s model must be viewed as optimistic. By not recognizing  
442 uncertainty and the fact that many of the costs of UNE-L entry are sunk costs, the model  
443 overestimates the prospects for potential deployment. In Section V below I illustrate the  
444 effect of some sources of uncertainty on possible outcomes estimated by the model.  
445 Recognizing the effect of uncertainty in even this simple way will allow the Commission to

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<sup>26</sup> *Id.* ¶ 88.

<sup>27</sup> *Id.* ¶ 80.



446 more effectively judge whether CLECs considering investments in UNE-L entry will be  
447 willing to incur substantial sunk costs to participate in such a project.

448 **III. QWEST'S MARKET DEFINITION IS FLAWED**

449 **Q. DOES THE COMMISSION'S RECENT ORDER IN QWEST'S**  
450 **COMPETITIVE CLASSIFICATION CASE HAVE BEARING ON**  
451 **MARKET DEFINITION IN THIS PROCEEDING?**

452 A. Yes. In the *Order Granting Competitive Classification*, the Commission notes that  
453 Staff and Qwest acknowledged that "an exchange or wire center level as a geographic market  
454 might be appropriate if the evidence of entry were limited to facilities based CLECs, and  
455 there were not widespread established CLEC entry by means of UNE-P and other wholesale  
456 products."<sup>28</sup> In this proceeding, UNE-P entry offers no basis for overcoming the national  
457 finding of impairment, and the Commission must consider actual and well as potential  
458 "facilities based" entry.

459 **Q. QWEST'S MARKET DEFINITION REQUIRES LUMPING**  
460 **TOGETHER WIRE CENTERS INTO MSA MARKETS. IS IT**  
461 **APPROPRIATE TO AGGREGATE WIRE CENTERS FOR A**  
462 **MARKET DEFINITION IN THIS PROCEEDING?**

463 A. No. Aggregating wire centers into larger markets serves no purpose but to paint the  
464 geography of Washington mass-market customers with a broad brush, including areas of no  
465 UNE-L competition in the same market as areas where UNE-L competition is developing.  
466 This approach unnecessarily raises the stakes on Commission findings of no impairment,  
467 where a wire center or two may afford evidence supporting such a finding, but there is no  
468 UNE-L entry in outlying areas, and none is likely to occur for some time. Aggregating wire

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<sup>28</sup> *Id.* ¶ 69.

469 centers is entirely at odds with the FCC's mandate for "accuracy and practicality," because it  
470 unnecessarily introduces both inaccuracy and practical difficulties.<sup>29</sup>

471 **A. Qwest's Reliance on Scale Economies to Define Markets is Misplaced**

472 **Q. IN ARGUING AGAINST DEFINING THE WIRE CENTER AS THE**  
473 **GEOGRAPHIC MARKET, QWEST ARGUES THAT ECONOMIES**  
474 **OF SCALE REQUIRE ENTRY AT A LARGER SCALE. DOES THIS**  
475 **CONSIDERATION SUPPORT A MARKET DEFINITION LARGER**  
476 **THAN THE WIRE CENTER?**

477 A. No. As I discussed in my Direct Testimony, economies of scale may interact with  
478 other factors, notably the cost of transportation, to influence the geographic scope of  
479 alternatives available to consumers, which is the real criterion for defining markets.  
480 However, directly using economies of scale to define markets, as required for this  
481 proceeding, inevitably leads to contradiction. First, Qwest recognizes that the criterion of a  
482 "market" large enough to capture all important economies of scale would require defining  
483 markets larger than the state. Mr. Reynolds' Direct Testimony notes "that a statewide or  
484 larger geographic market definition might, absent the FCC's pronouncement in the TRO, be  
485 appropriate," and Mr. Shooshan endorses the conclusion.<sup>30</sup> It is inevitable that a desire to  
486 define markets by reference to economies of scale will collide with the FCC's requirement  
487 that markets not be defined to be as large as a state. Mr. Reynolds and Mr. Shooshan seem to  
488 regard this constraint as unfortunate, but the point of defining a geographic market is to  
489 determine the area in which service offerings represent alternatives acceptable to consumers,  
490 not areas required to exhaust economies of scale.

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<sup>29</sup> *Id.* ¶ 130.

491 In spreading the fixed costs of Operations Support Systems “across all states” Mr.  
492 Copeland also recognizes that economies of scale will not generally be exhausted within a  
493 single state.<sup>31</sup> The observed pattern of UNE-L CLEC entry corroborates the existence of  
494 such economies of scale, which clearly extend well beyond state boundaries.

495 While not conclusive evidence, the fact that UNE-L providers typically enter many  
496 markets over a broad geographic area is suggestive of the existence of such economies of  
497 scale. The following table gives a rough characterization of the geographic scope of the  
498 UNE-L CLECs mentioned at page 31 of Mr. Reynolds’ direct testimony.<sup>32</sup>

<b>Company</b>	<b>Headquarters</b>	<b>Geographic Scope</b>
Advanced Telecom Group	Santa Rosa, CA	West Coast
Allegiance Telecom, Inc.	Dallas, TX	Nationwide
Eschelon Telecom, Inc.	Minneapolis, MN	West and Midwest
Integra Telecom, Inc.	Beaverton, OR	West and Midwest
MCI	Ashburn, VA	Worldwide
McLeodUSA Inc.	Cedar Rapids, IA	West and Midwest
SBC Telecom Inc.	San Antonio, TX	Nationwide
XO Communications	Reston, VA	Nationwide

499 Source: company web sites

500 Thus, it should be clear that the geographic markets cannot be determined in such a  
501 way as exhaust all economies of scale. It is clear that economies of scale extend well beyond

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<sup>30</sup> Direct Testimony of Mark S. Reynolds at footnote 11; Direct Testimony of Harry M. Shooshan at footnote 74.

<sup>31</sup> Exhibit PBC-2 at §§ 2.8.5 and 2.9.1.

<sup>32</sup> I include SBC Telecom for completeness, but I would exercise extreme caution in drawing inferences from SBC Telecom’s actions without recognizing the influence of the SBC-Ameritech merger conditions on those actions.

502 state boundaries. If the FCC had sought to define geographic areas sufficient to allow  
503 exhaustion of economies of scale, but, for some administrative reason didn't want to expand  
504 beyond state boundaries, the FCC could have defined each state as a market. Rather, the  
505 FCC requires the states to conduct a "granular" analysis, "on the most accurate level  
506 possible, while still preserving administrative practicality," and took the "lesson of  
507 geographic granularity from the HMG."<sup>33</sup>

508 **Q. WHAT IS YOUR UNDERSTANDING OF THE FCC'S**  
509 **REQUIREMENT REGARDING ECONOMIES OF SCALE IN**  
510 **MARKET DEFINITION?**

511 A. In my understanding, the clearest, most unequivocal guidance provided by the FCC is  
512 that impairment analysis must be conducted on a granular, market-by-market basis, with  
513 geographic markets being defined as areas smaller than entire states. The FCC stated that  
514 "states should not define the market so narrowly that a competitor serving that market alone  
515 would not be able to take advantage of available scale and scope economies from serving a  
516 wider market."<sup>34</sup> However, a tension arises from a too-literal reading of the requirement.

517 There is no dispute that there is a need to give effect to the FCC's requirement  
518 regarding scale economies by incorporating suitable assumptions into a business case  
519 analysis that allow the modeled CLEC to spread some costs to other states' operations,  
520 thereby taking advantage of economies of scale. This is an absolutely crucial feature of  
521 Qwest's business case model; without this assumption with respect to the cost of OSS,  
522 I doubt there would be a possibility of a positive business case for any area in Washington.

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<sup>33</sup> *Triennial Review Order* ¶ 130 and n.439.

<sup>34</sup> *Id.* ¶ 495.

523 However, I believe that this approach, or a similar alternative, gives full effect to the quoted  
524 requirement.

525 **Q. WOULD EXPANDING THE MARKET BEYOND THE WIRE**  
526 **CENTER TO AN MSA, OR A LATA, GIVE EFFECT TO THIS**  
527 **REQUIREMENT?**

528 A. No. As I noted above, expanding the definition of the geographic market, even to  
529 encompass the entire state, will not, under the most literal reading, allow a CLEC “to take  
530 advantage of available scale and scope economies from serving a wider market.”

531 **Q. WHAT DO YOU BELIEVE IS THE CORRECT READING OF THIS**  
532 **REQUIREMENT?**

533 A. I believe that this statement is best understood as requiring that the analysis *not* be  
534 conducted in such a way that the definition of the market, being too small to allow a CLEC to  
535 achieve economies of scale, predetermines, or favors a finding of impairment by artificially  
536 imposing a cost disadvantage on the modeled CLEC. Under this reading of the requirement,  
537 there is no need to introduce inaccuracy by expanding the geographic scope of the market in  
538 a way that doesn’t reflect the availability of alternatives to consumers. Neither is the  
539 expansion of the market definition within the State’s boundaries sufficient to afford volumes  
540 necessary for economies of scale, nor is it necessary.

541 **Q. DOES THIS APPROACH REQUIRE ANY QUALIFICATIONS?**

542 A. Yes. As I discussed in my direct testimony, in order for this approach to lead to  
543 correct results, it must be the case that each wire center, defined as a market for the purposes  
544 of trigger and potential deployment analysis, can be economically included in a collection of  
545 other wire centers, which may not necessarily be nearby, in a way that affords the CLEC the  
546 opportunity to take advantage of economies of scale. An example of this requirement is that

547 the availability of UNE-P in nearby wire centers where UNE-L is not feasible helps ensure  
548 the possibility of achieving economies of scale in advertising. I believe that this requirement  
549 is very similar, if not identical, to the analysis of Dr. Lehr and Dr. Selwyn on behalf of  
550 AT&T.<sup>35</sup>

551 **B. The MSA Does Not Define an Appropriate Aggregation**

552 **Q. IF THE COMMISSION WERE DETERMINED TO ADOPT A**  
553 **MARKET DEFINITION THAT REQUIRES AGGREGATING WIRE**  
554 **CENTERS, WHAT CRITERIA SHOULD BE USED TO EVALUATE**  
555 **A PARTICULAR AGGREGATION SCHEME?**

556 A. The most important criterion would be that a CLEC within the aggregation is in a  
557 position to serve customers anywhere within the aggregation. As I noted above, while this  
558 criterion is satisfied reasonably well in aggregating customer locations to the level of an  
559 individual wire center, there is no way to aggregate multiple wire centers to satisfy this  
560 criterion. Beyond this, the Commission should look for uniformity among aggregated wire  
561 centers in the characteristics that determine the feasibility of UNE-L entry. That is, while  
562 entry in one wire center does not assure a CLEC the economic feasibility of offering service  
563 beyond the boundaries of that wire center serving area, any aggregation of wire centers for  
564 the purpose of market definition ought to, at least, represent a group of wire centers that  
565 present CLECs with similar entry prospects.

566 MSAs do not perform well under this criterion. The most straightforward test of the  
567 uniformity of wire centers within an MSA under this criterion is depicted in the charts of  
568 Exhibit RC-8HC based on the incremental discounted cash flow analysis – roughly, wire

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<sup>35</sup> Direct Testimony of William H. Lehr and Lee L. Selwyn at 38.

569 center profitability – from Qwest’s potential deployment model, using Qwest’s default input  
570 values. I’ll discuss some of Qwest’s chosen input values below, but the point of this exercise  
571 is simply to note the great variation among profitability levels of the wire centers within an  
572 MSA.

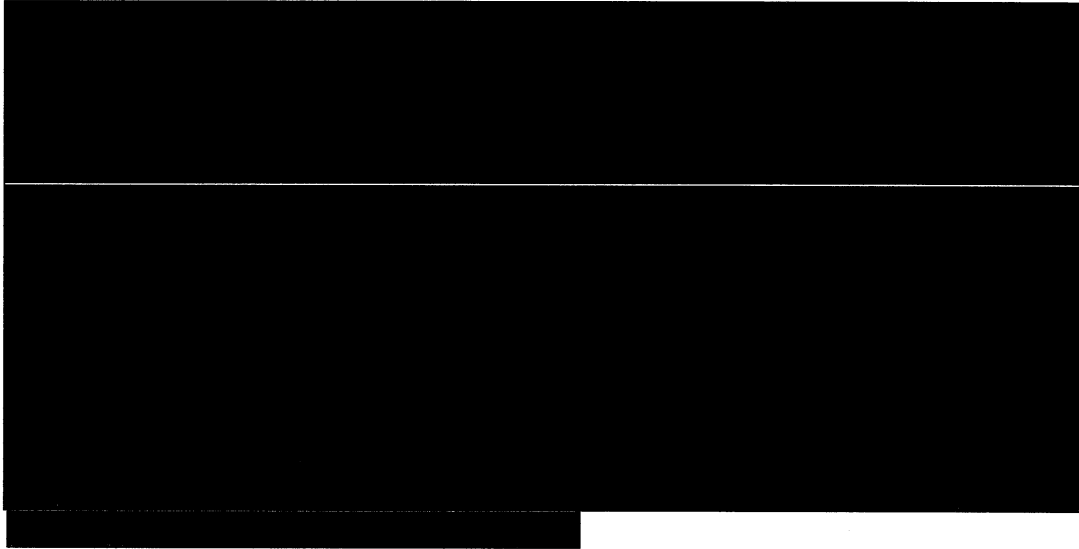
573 In every MSA, one wire center appears in the chart as a “profitability outlier” in  
574 Qwest’s analysis. In every case, the differences among wire centers that explain these  
575 dramatic differences in profitability are the number of lines in the wire center and the ratio of  
576 business lines to residential lines. Again, this corroborates the predominant pattern of UNE-  
577 L CLEC entry – enter the **BEGIN HIGHLY CONFIDENTIAL \*\*\* [REDACTED] \*\*\* END**  
578 **HIGHLY CONFIDENTIAL** wire centers to offer service only to businesses – but it does  
579 not suggest MSAs as a reasonable aggregation of wire centers. MSAs are defined to include  
580 a “recognized population nucleus and adjacent communities.”<sup>36</sup> It is in the nature of the  
581 geographic distribution of population that areas defined, roughly speaking, to include a  
582 population center and outlying areas, will include high density wire centers and lower density  
583 wire centers. The following table contrasts characteristics of wire centers within the six  
584 MSAs in which Qwest proposes that the Commission should find no impairment with respect  
585 to the local switching UNE. For each wire center, the table shows the ratio of business to  
586 residence lines in the high profit wire center – typically a central business district –  
587 contrasted with the same ratio calculated for the remainder of the MSA. Next, the table  
588 shows the number of DS0 loops in the high profit wire center and the average number of DS0

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<sup>36</sup> Office of Management and Budget, *Standards for Defining Metropolitan and Micropolitan Statistical Areas; Notice*, Federal Register, Wednesday, December 27, 2000.

589 loops in the other wire centers of the MSA. These contrasting factors show important  
590 variation, not uniformity, within MSAs.

591 **BEGIN HIGHLY CONFIDENTIAL \*\*\***



592

593 **\*\*\* END HIGHLY CONFIDENTIAL**

594 **Q. ARE THE WIRE CENTERS WITHIN AN MSA SIMILAR IN**  
595 **REVENUE CHARACTERISTICS?**

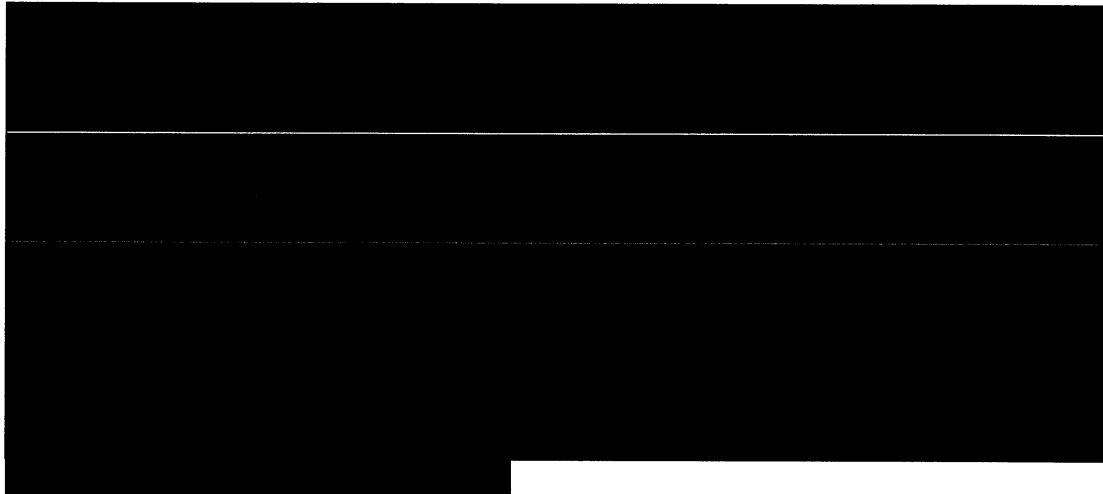
596 A. No, average expenditures on telecommunications services vary among wire centers,  
597 and there is greater similarity between MSAs than among the wire centers within a particular  
598 MSA. The following table, derived from quarterly Bill Harvesting® data collected by TNS  
599 Telecoms shows average revenue per line for the wire center with the highest revenue per  
600 line and the wire center with the lowest revenue per line in each of the MSAs in which Qwest  
601 claims a finding of no impairment is justified.<sup>37</sup> The highs vary from **BEGIN HIGHLY**

602 **CONFIDENTIAL \*\*\*** 

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<sup>37</sup> I understand that wire center estimates reported by TNS are derived from Bill Harvesting® by use of a model based on demographic characteristics of wire centers.





603

604 **\*\*\* END HIGHLY CONFIDENTIAL**

605       The last two columns show the simple averages for the six MSAs, treating the wire  
606 center as the unit of analysis, and the weighted average for each MSA, treating lines as the  
607 unit of analysis. Both measures of central tendency within MSAs are strikingly similar  
608 between the MSAs. This is not surprising, considering that MSAs are defined to include a  
609 central place and outlying areas. Each MSA includes the variation dictated by the continuum  
610 from central business district to outlying area. When you average out those differences  
611 within MSAs to compare nearby MSAs, less difference appears.

612 **Q. DOES THE OBSERVED PATTERN OF ENTRY BY UNE-L CLECS**  
613 **SUGGEST AN MSA MARKET DEFINITION?**

614 A. No. If this were the case a CLEC entering the MSA using the UNE-L strategy would  
615 present an alternative for consumers throughout the MSA. In fact, UNE-L CLECs enter a  
616 wire center or a few wire centers but do not typically offer service throughout the MSA. As  
617 noted in the *Order Granting Competitive Classification*, Staff and Qwest acknowledged that  
618 “an exchange or wire center level as a geographic market might be appropriate if the  
619 evidence of entry were limited to facilities based CLECs, and there were not widespread

620 established CLEC entry by means of UNE-P and other wholesale products.”<sup>38</sup> In the present  
621 case, the Commission seeks evidence that might overcome the FCC’s national finding of  
622 impairment based on operational barriers to entry associated with the UNE-L CLEC’s need  
623 for “hot cuts” to migrate customers. That is, the relevant evidence is “limited to facilities  
624 based CLECs,” the first premise that would lead Staff and Qwest to favor an exchange or  
625 wire center market definition. Further, the Commission will make a decision in this case that  
626 could lead to overturning the “widespread established CLEC entry by means of UNE-P” that  
627 forms the other premise that would lead Staff and Qwest to favor an exchange or wire center  
628 market definition.

629 **Q. DOES THE GEOGRAPHIC PATTERN OF ENTRY OF UNE-L**  
630 **CLECS LEND ANY SUPPORT TO AN MSA MARKET**  
631 **DEFINITION?**

632 A. No. As I explained in my Direct Testimony, the correct criterion for market  
633 definition is the availability of alternatives to consumers. Conditions in a particular industry  
634 with great economies of scale may lead to firms operating in geographically large markets, or  
635 it may lead to firms entering many geographically small markets. Local telecommunications  
636 is an example of the latter. In any case, the observed pattern so far is that UNE-L CLECs  
637 typically enter many MSAs, but only enter a few wire centers in each MSA. I do not see any  
638 basis for arguing from this pattern that markets should be defined by MSAs.

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<sup>38</sup> *Order Granting Competitive Classification* at 69.

639           **C.     The Commission Should Determine the Mass-Market Boundary to**  
640           **Include All DS0 Switching**

641     **Q.     IN YOUR DIRECT TESTIMONY YOU STATED THAT THE**  
642     **COMMISSION SHOULD CONSIDER “THE EMPIRICAL**  
643     **EVIDENCE OF MARKETPLACE BEHAVIOR TO DETERMINE**  
644     **WHETHER THERE ARE OTHER FACTORS THAT ARE**  
645     **AFFECTING A CUSTOMER’S DECISION TO GO DS-1 VERSUS**  
646     **MULTIPLE VOICE-GRADE LOOPS.” HAVE YOU REACHED A**  
647     **CONCLUSION ON THIS ISSUE?**

648     A.     Yes. As the Commission observed in the *Order granting Competitive Classification*,  
649     there is some price at which “a customer might choose digital service, after taking into  
650     account the cost of digital CPE and other factors.”<sup>39</sup> In my Direct Testimony I discussed  
651     some of the customer-specific factors that might lead individual customers to prefer service  
652     either a DS-1 or several DS-0 circuits. Since filing that testimony I have come to believe that  
653     capturing all of these customer-specific considerations in a “one-size-fits-all” calculation of  
654     the economic crossover point between DS-1 and voice-grade loops is virtually impossible.  
655     Therefore, I recommend that the Commission rely on the market to “validate” the efficient  
656     crossover point, as Verizon has proposed in California and elsewhere.

657     **Q.     HOW COULD THE COMMISSION RELY ON THE MARKET TO**  
658     **“VALIDATE” THE EFFICIENT CROSSOVER POINT?**

659     A.     The Commission could presume that each CLEC and its customer have made a  
660     rational decision as to whether to serve its end-user customer via an analog, voice-grade loop  
661     or a DS-1 (or higher capacity) loop, given the specific circumstances for each customer. This  
662     is the approach that Verizon has taken. Hence, Verizon does not attempt to perform its own

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<sup>39</sup> *Id.* ¶ 53.

663 crossover analysis to replicate the decision analysis of the CLEC.<sup>40</sup> Instead, it merely counts  
664 every instance in which a CLEC obtains an analog loop to provide voice-grade service in  
665 conjunction with its own switching as a mass-market loop.

666 **Q. HOW WOULD THE COMMISSION IMPLEMENT SUCH A**  
667 **PROCEDURE?**

668 A. The Commission would consider in its impairment inquiry all evidence concerning  
669 CLEC self-deployment of switching in conjunction with analog, voice-grade loops without  
670 limitation as to the number of analog lines per customer location that the CLEC obtains. For  
671 each geographic area in which the Commission subsequently affirms the national finding of  
672 impairment (including those areas for which Qwest does not seek to challenge the national  
673 finding), the Commission would then permit CLECs to obtain UNE switching in conjunction  
674 with analog, voice-grade loops without any restriction as to the number of loops per customer  
675 location for which the CLEC could obtain unbundled switching at TELRIC-based prices.  
676 Under this approach, the enterprise market is defined effectively as the market for DS-1 level  
677 switching.

678 **Q. QWEST HAS STATED THAT IT IS ACCEPTING THE FCC**  
679 **NATIONAL DEFAULT OF MASS-MARKET SWITCHING BEING**  
680 **DEFINED AS LESS THAN FOUR LINES PER CUSTOMER**  
681 **LOCATION. WOULD IT BE FAIR TO QWEST TO ADOPT YOUR**  
682 **RECOMMENDATION CONCERNING THE AVAILABILITY OF**  
683 **TELRIC-PRICED SWITCHING IN GEOGRAPHIC MARKETS FOR**  
684 **WHICH THE COMMISSION MAKES A FINDING OF**  
685 **IMPAIRMENT?**

686 A. Yes. I expect that, with properly applied trigger screens, the selected crossover point  
687 will not have a significant effect on the final result. Nonetheless, in its next round of

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<sup>40</sup> Testimony of Orville B. Fulp on Behalf of Verizon California Inc., California Public

688 testimony, Qwest will have the opportunity to identify whether it believes there are additional  
689 instances in which a competitor qualifies to be counted toward the trigger using the market-  
690 based approach to the crossover point that I recommend. Moreover, under the FCC's rules,  
691 Qwest will have future opportunities to make trigger filings before this Commission based on  
692 the more expansive crossover point. Hence, at worst (from Qwest's perspective), application  
693 of the broader crossover point definition will merely defer a finding of no impairment to its  
694 next trigger filing.

695 Finally, there is absolutely no justification to believe that it would ever make sense to  
696 serve residential customers on a DS-1 loop; therefore, I see no reason for the Commission to  
697 impose any limitation whatsoever on the number of analog ports that a CLEC can obtain at  
698 TELRIC-based prices to serve residential customers, who comprise the majority of mass-  
699 market customers under any plausible definition.

700 **IV. EVEN UNDER A WIRE CENTER MARKET DEFINITION,**  
701 **QWEST'S TRIGGER ANALYSIS IS FLAWED**

702 **Q. SHOULD IT BE EASIER OR HARDER TO SATISFY THE RETAIL**  
703 **SELF-PROVISIONING TRIGGER UNDER A WIRE CENTER**  
704 **MARKET DEFINITION?**

705 A. It should be much easier. As I discussed in my Direct Testimony, it is reasonable,  
706 with some reservations, for the Commission to presume that a CLEC serving in a particular  
707 wire center is in a position to serve all customer locations in that wire center.<sup>41</sup> As discussed

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Utilities Commission, R.95-04-043/I.95-04-044, December 12, 2003, at 15.

<sup>41</sup> The reservations I expressed are associated with the CLEC's ability to expand within the wire center because of impediments such as operational limitations or limited access to loops because of the existence of IDLC.

708 in my Direct Testimony and in the previous section, such a presumption is not justified with  
709 markets defined as MSAs.

710 **A. Trigger Analysis under a Wire Center Market Definition**

711 **Q. HOW DO YOU TEST WHETHER THE FCC'S RETAIL SELF-**  
712 **PROVISIONING TRIGGER IS SATISFIED UNDER A WIRE**  
713 **CENTER MARKET DEFINITION?**

714 A. The retail trigger requirement is satisfied in any wire center where 3 or more CLECs  
715 are actually providing qualifying service in ways that satisfy requirements of the *Triennial*  
716 *Review Order* for a finding of no impairment under the "bright line" standard of actual  
717 deployment. I discussed these requirements at length in my Direct Testimony, and briefly  
718 restated the tests in Section II.A above.

719 **B. Qualifying Self-Provisioning CLECs in Qwest Wire Centers**

720 **Q. HOW DO YOU APPLY THESE TESTS OR SCREENS TO QUALIFY**  
721 **THE CLEC QWEST PROPOSES AS SATISFYING THE TRIGGERS.**

722 A. I address each of the wire centers in which Mr. Reynolds' Exhibit MSR-6HC shows 3  
723 or more CLECs serving customers with self-provisioned switching, and I evaluate each of the  
724 CLECs Qwest proposes as satisfying the requirements of the trigger analysis. Before  
725 applying the tests for compliance with requirements of the trigger analysis, I correct a claim  
726 that is contradicted by the CLEC's response to a Bench Request. According to Rainier  
727 Connect's response to Bench Request 43, Rainier Connect provides qualifying services to  
728 end users in only a single wire center, Graham, **BEGIN HIGHLY CONFIDENTIAL \*\*\***

729 **CONFIDENTIAL. \*\*\* END HIGHLY**  
730 **CONFIDENTIAL.**

731 **Q. WHAT IS THE FIRST TEST YOU APPLY?**

732 A. I first test the scope of market participation as indicated in CLEC responses to Bench  
733 Request 45 by identifying, and removing from the list, those CLECs that provide service only  
734 to business customers. For the reasons discussed in my Direct Testimony at section IV.B.4,  
735 CLECs offering service only to business customers are “currently serving (or capable of  
736 serving) only part of the market,” and cannot be regarded as satisfying the requirement of the  
737 trigger test for the entire market.<sup>42</sup>

738 After application of this test there are **BEGIN HIGHLY CONFIDENTIAL \*\*\***  
739 **\*\*\* END HIGHLY CONFIDENTIAL** offering service to  
740 both business and residential customers, and **BEGIN HIGHLY CONFIDENTIAL \*\*\***  
741 **\*\*\* END HIGHLY CONFIDENTIAL** but none remains with 3 or more.  
742 While the retail trigger analysis stops at this point, I proceed to comment on some of the  
743 remaining market participation.

744 **Q. WHAT TEST DO YOU APPLY NEXT?**

745 A. Next, for reasons discussed under Section IV.B.3, Intermodal Competition, of my  
746 Direct Testimony, I remove the two cable telephony providers listed on MSR-6HC. After  
747 applying this test, **BEGIN HIGHLY CONFIDENTIAL \*\*\***

748 **\*\*\* END HIGHLY CONFIDENTIAL**

749 **\*\*\* END HIGHLY CONFIDENTIAL**

750 **\*\*\* END HIGHLY CONFIDENTIAL**

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<sup>42</sup> *Triennial Review Order* at n.1552.

751 [REDACTED] \*\*\* END HIGHLY

752 **CONFIDENTIAL**

753 **Q. WHAT ADDITIONAL COMMENTS WILL YOU OFFER RELATIVE**  
754 **TO THE QUALIFICATION OF THESE TWO CLECs TO BE**  
755 **COUNTED IN A RETAIL TRIGGER ANALYSIS?**

756 **A. BEGIN HIGHLY CONFIDENTIAL \*\*\* [REDACTED]**

757 [REDACTED]

758 [REDACTED]

759 [REDACTED]

760 [REDACTED]

761 [REDACTED]

762 [REDACTED] \*\*\* END HIGHLY CONFIDENTIAL

763 **Q. WHAT CONCLUSION DO YOU REACH AFTER EXAMINING**  
764 **QWEST'S PROPOSED TRIGGER COMPANIES' MARKET**  
765 **PARTICIPATION UNDER A WIRE CENTER MARKET**  
766 **DEFINITION?**

767 **A.** Given the current state of deployment, the trigger threshold is not met in any  
768 Washington wire centers. The reason is simple: because of the operational and economic  
769 barriers to providing UNE-L services, CLECs employ UNE-L almost solely for the  
770 provisioning of services for business customers. While the business segment is substantial  
771 and important, and competitive gains in that segment should not be underestimated, UNE-L  
772 CLECs have not demonstrated a willingness or ability to serve residential customers, and the



773 Commission should require such evidence before making a finding of no impairment under  
774 the bright line rule of the trigger test.<sup>43</sup>

775 **V. QWEST'S POTENTIAL DEPLOYMENT MODEL LEADS TO**  
776 **OPTIMISTIC AND MISLEADINGLY PRECISE RESULTS**

777 **Q. WHAT IS THE PURPOSE OF THIS SECTION OF YOUR**  
778 **TESTIMONY?**

779 A. In this section I will discuss the evidence that Qwest offers regarding potential  
780 deployment.

781 **Q. HAVE YOU ALREADY REFERRED TO QWEST'S POTENTIAL**  
782 **DEPLOYMENT EVIDENCE?**

783 A. Yes. I have already referred to this evidence, without questioning Qwest's chosen  
784 default inputs, in several contexts above. I noted that Qwest's own analysis suggests that  
785 entry into many wire centers is not economically feasible, even using Qwest's own input  
786 values and ignoring the role of sunk costs in an uncertain environment. I noted the diversity  
787 of profitability results that Qwest reaches for different wire centers within a single MSA.  
788 I adopted the model's assumption that an efficient UNE-L CLEC could grow to 5% of the  
789 market in 5 years to provide context for evaluating the scale of participation of UNE-L  
790 CLECs in Qwest's proposed MSA markets. I noted that Qwest's model assumes that  
791 economies of scale are achieved by spreading some costs to CLEC operations in other  
792 LATAs or states and noted that an assumption to allow economies of scale in a small

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<sup>43</sup> **BEGIN HIGHLY CONFIDENTIAL \*\*\***   


793 geographic area is straightforward, but defining markets on the basis of the extent of  
794 economies of scale is impossible, within the constraint of the FCC's requirement that the  
795 entire state is too large a market.

796 **Q. DO YOU BELIEVE THAT QWEST'S MODEL PROVIDES A**  
797 **REASONABLE BASIS FOR THE COMMISSION TO REACH**  
798 **DECISIONS REGARDING THE FEASIBILITY OF UNE-L ENTRY?**

799 A. No. While I adjust some inputs to illustrate the uncertainty associated with  
800 investments in UNE-L entry, and I interpret outcomes from the model to point out several  
801 facets of the evidence in this case, I do not believe the model can be relied on to reach a  
802 "yes" or "no" conclusion about the feasibility of UNE-L entry, either at an MSA level or at a  
803 wire center level. I believe that it will be very difficult for the Commission to conclude, from  
804 any model, that entry is feasible and customers in a given area should be denied alternative  
805 service offered by UNE-P CLECs.

806 **A. Uncertainty Regarding Model Inputs and Output**

807 **Q. YOU DISCUSSED THE IMPORTANCE OF UNCERTAINTY AT**  
808 **SOME LENGTH IN YOUR DIRECT TESTIMONY AND IN**  
809 **SECTION II.B.2 ABOVE. HOW DO YOU QUANTIFY THE**  
810 **EXTENT OF THIS UNCERTAINTY?**

811 A. As I indicated in my Direct testimony, it is possible to specify input values as ranges  
812 rather than as specific values. Executing the model requires selecting a value at random from  
813 the range specified for each input about which substantial uncertainty obtains. The model is  
814 then executed many times, with new input values chosen randomly from their ranges,  
815 recording the profitability outcome for each execution of the model. In this approach, known

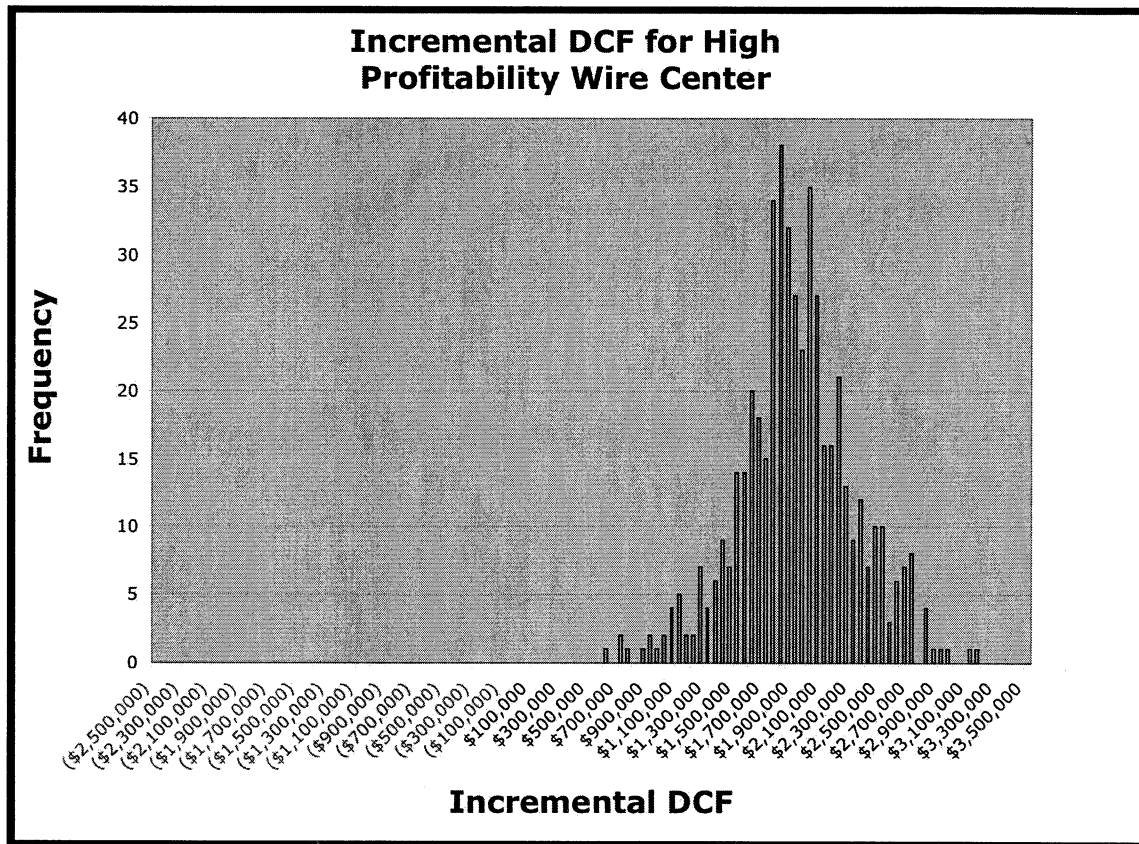
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\*\*\* END HIGHLY CONFIDENTIAL.

816 as Monte Carlo simulation, the profitability results reported for the specified ranges of input  
817 values capture the uncertainty that must be attached to the level of profitability projected by  
818 the model.

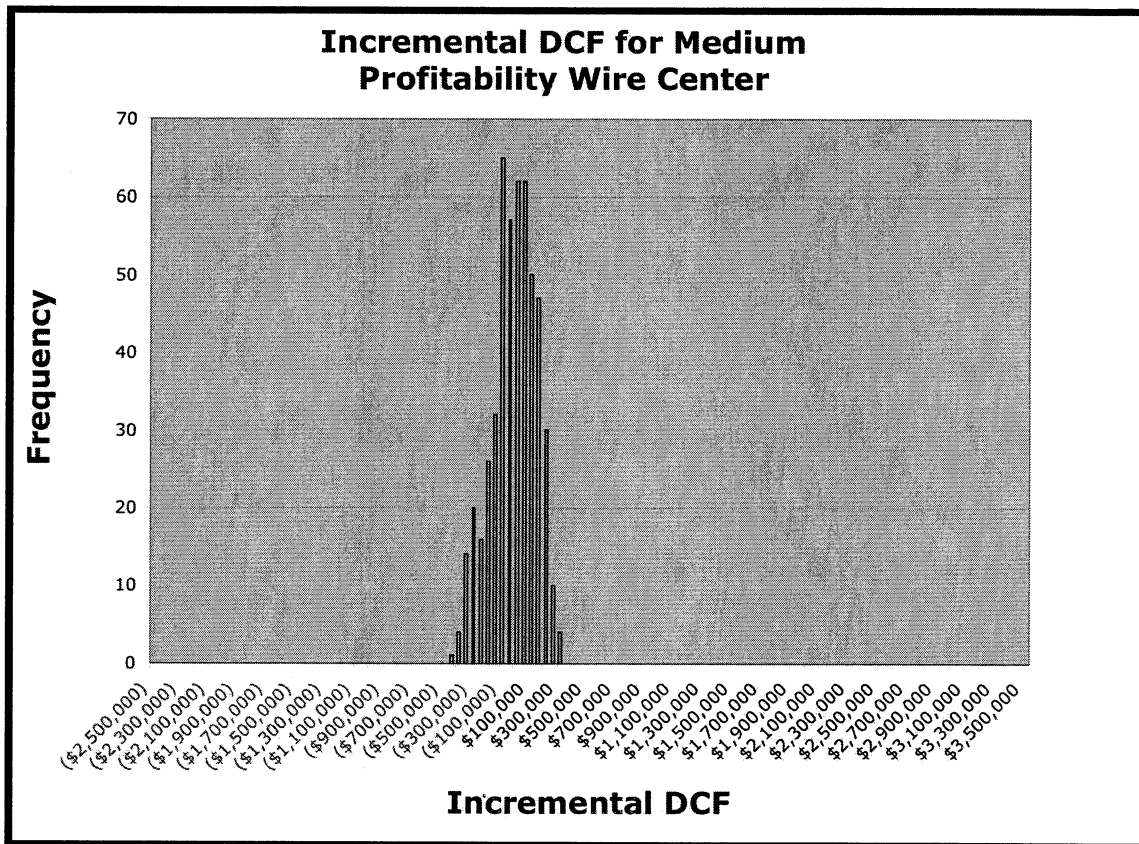
819 The following three charts show approximations of the more or less “bell shaped  
820 curves” that capture uncertainty about the future profitability of a CLEC’s potential  
821 investment in UNE-L market entry. Input ranges are specified for the level of market share  
822 the CLEC will attain at the end of 5 years, anticipated revenue, and churn. The model is then  
823 executed 500 times with input values chosen randomly from the specified ranges, and  
824 recorded results for a particular wire center are displayed in graphs such as the following. In  
825 each of the graphs, known as histograms, the horizontal axis shows a level of profitability, or  
826 Incremental Discounted Cash Flow (IDCF), as calculated by Qwest’s potential deployment  
827 model. Roughly, a positive number projects that adding the wire center under study leads to  
828 an increase in the net present value of the CLEC’s investment over its entire 25 year life.  
829 The vertical axis shows the frequency with which a particular range of profitability values  
830 occurs in the repeated executions of the model. Ranges of profitability values associated  
831 with high frequency are more likely outcomes from the uncertain process, and ranges of  
832 profitability values with lower frequency values are less likely outcomes.

833 Illustrative charts are provided for three different wire centers. The first, a large  
834 central business district wire center with many business lines, is highly profitable, showing a  
835 substantial range of possible outcomes for the CLEC’s investment, but no significant losses.



836

837           The second illustrative chart, for a less attractive wire center, shows a range of  
838 possible outcomes that includes a substantial probability of losses. A CLEC entering this  
839 exchange must anticipate the possibility that things may not go as planned, in a large enough  
840 way that serious losses may be incurred.

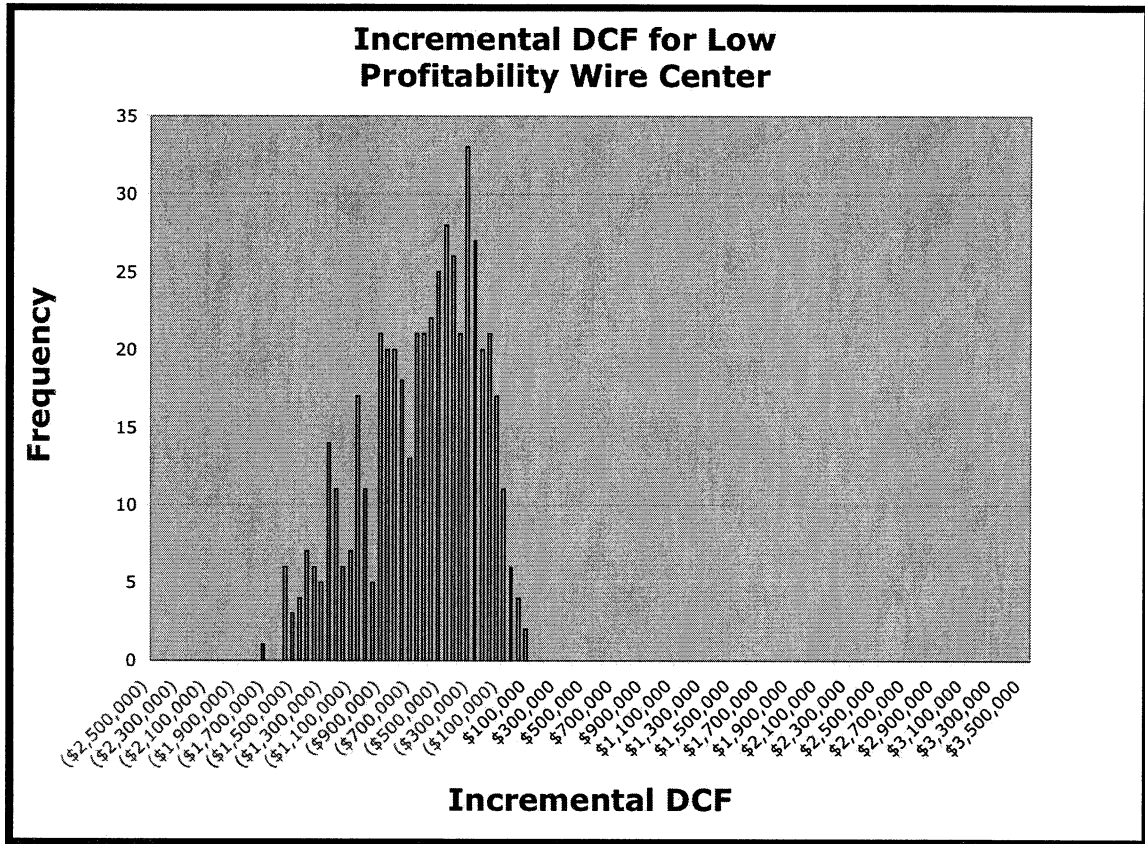


841

842

843

Finally, a smaller wire center is analyzed, for which the entire range of likely levels of profitability appear to be less than zero.



844

845

846

847

The results of the 500 executions of the model used for these charts are contained in Exhibit RC-10. The user can enter a wire center code in the cell indicated in the upper left of the spreadsheet to generate a chart for the indicated wire center.

848

**B. Revenue Inputs**

849

850

**Q. WHAT IS THE PERIOD OVER WHICH QWEST MODELS CLEC REVENUE?**

851

A. 25 years.

852

853

**Q. PLEASE DESCRIBE QWEST'S APPROACH TO MODELING CLEC REVENUE OVER THE NEXT 25 YEARS?**

854

A. Qwest models CLEC revenue on the rate structures of two MCI Neighborhood plans.

855

In addition to the published prices for the plans, the model makes assumptions regarding long

856

distance usage and the relative proportions of customers who choose the two plans. The

857 outcome of the analysis, using Qwest's default input values, is an average revenue per  
858 customer of \$54.10 for residential customers. All of these factors – prices, volumes of long  
859 distance usage, and preferences between the two plans – are assumed to remain constant over  
860 the next 25 years. This complex approach to revenue modeling suggests precision which is  
861 simply not possible in projecting next year's revenue, much less revenue that will be  
862 attainable in 25 years.

863 **Q. IS IT REASONABLE FOR QWEST TO BASE ITS MODEL'S**  
864 **REVENUE ESTIMATE ON A PARTICULAR CARRIER'S PRICES?**

865 A. No. First, it is unreasonable to model revenue results starting from plans designed to  
866 attract "high end" customers. While some CLECs may at some times be able to earn the  
867 revenues generated by such plans, it will not be possible for any efficient entrant to count on  
868 revenues that may be generated by a particular CLEC's prices, reputation, customer  
869 relationships, etc. Thus, an efficient entrant may aspire to the high end of the market, but  
870 will also consider the average customer. National expenditure on local and long distance  
871 services from 1998 through 2002 are depicted in the following table. The sum of local and  
872 long distance expenditures, corrected for inflation, and expressed on a monthly basis appears  
873 in the right hand column, \$48.75 for 2002. Qwest's model properly excludes taxes from its  
874 revenue calculation, but taxes amounting to approximately \$3.14 are included in the \$48.75  
875 average.<sup>44</sup> Thus, the FCC's reported average expenditure excluding taxes but including End  
876 User Common Line Charge is \$45.61. Note that total expenditure on local and long distance  
877 services has been declining over the last five years. The average annual rate of this decline

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<sup>44</sup> Taxes, 911, and other charges from FCC Reference Book 2003, Table 1.1.

878 has been approximately 6%. If this trend continues, average expenditure will decline to  
879 approximately \$40.30 in 2004.

880 Average Annual Household Telecommunications Expenditure

	<b>Local Exchange</b>	<b>Long Distance</b>	<b>Total in Current Dollars</b>	<b>Total in 2002 Dollars</b>	<b>Monthly Total in 2002 Dollars</b>
1998	\$398	\$270	\$668	\$737	\$61.44
1999	402	257	659	712	59.30
2000	416	211	627	655	54.59
2001	426	176	602	612	50.96
2002	436	149	585	585	48.75

881 Source: FCC Reference Book 2003, Table 2.6, CPI from Bureau of Labor Statistics

882 **Q. DO YOU BELIEVE IT'S REASONABLE TO ASSUME THAT**  
883 **PRICES – AND RESULTING REVENUES PER LINE – WILL**  
884 **REMAIN STABLE OVER THE NEXT 25 YEARS?**

885 A. No. For reasons discussed in my Direct Testimony, I believe that successful  
886 establishment of UNE-L competition will lead to substantial reductions in prices. It follows  
887 that no reasonable CLEC would rely on a business case that requires prices to remain stable  
888 over the next 25 years. The prediction of economic theory that prices will fall was recently  
889 corroborated by Qwest's CEO, Richard Notebaert, in an interview published in the Wall  
890 Street Journal.<sup>45</sup> Mr. Notebaert's advice to the regional phone companies includes: "Accept  
891 that you're a commodity. Slash your prices." The model Qwest presents to this Commission  
892 uses current prices, together with assumptions about usage and mix of customer types, to  
893 arrive at revenues at the very high end of what might be possible. Notwithstanding Mr.  
894 Notebaert's advice to "slash prices," Qwest would have this Commission assume that prices,

<sup>45</sup> January 19, 2004, attached as Exhibit RC-9.



895 and all the other factors that go into the translation of prices into revenue, will remain stable  
896 for the next 25 years.

897 **Q. DOES THE TRIENNIAL REVIEW ORDER REQUIRE THIS**  
898 **COMMISSION TO DETERMINE REVENUE OVER THE NEXT 25**  
899 **YEARS THROUGH A MECHANICAL CALCULATION THAT**  
900 **DOES NOT ALLOW THE POSSIBILITY OF CHANGE.**

901 A. I do not believe it does, and such an action certainly would not make good economic  
902 sense – especially in light of Qwest’s CEO recommending that regional phone companies  
903 “slash prices.” Qwest quotes the *Triennial Review Order’s* footnote 1598, which states that  
904 the majority “expect[s] states to consider prices and revenues prevailing at the time of their  
905 analyses.”<sup>46</sup> This “expectation” was not codified in the rules promulgated by the *Order*.  
906 Indeed, the rules are about evaluating the extent of “economic barriers.”<sup>47</sup> In discussing  
907 economic barriers in the context of local switching, the *Order* makes clear that “whether  
908 entry will be economic depends critically on the values of certain factors affecting a  
909 competing carrier’s likely costs and revenues, and that these factors vary significantly among  
910 locations and types of customers.”<sup>48</sup> The *Order* elaborates on this statement in footnote  
911 1497:

912 According to the standard set forth above, our analysis must take into  
913 consideration the full range of revenues that are likely to be obtained  
914 by an entrant providing voice and related services, and the costs likely  
915 to be incurred. All factors affecting a competing carrier’s likely  
916 revenues and costs must be examined to determine if they affect its  
917 ability to enter a market economically. Because economic entry

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<sup>46</sup> Note that there are various ways to “consider” price. I believe it would be at least as reasonable to project the 6% rate of decline of expenditure discussed above as it is to treat revenue as remaining stable over the next 25 years.

<sup>47</sup> 47 C.F.R. 51.319(d)(iii)(B)(3).

<sup>48</sup> *Triennial Review Order* ¶ 484.

918 depends on whether the sum total of all likely revenue sources exceeds  
919 the sum total of all likely costs of serving the market, any factor that  
920 limits or lowers the potential revenues available to a competing carrier,  
921 or raises the cost of serving a set of customers, is a potential barrier to  
922 entry. It is only by evaluating all the factors together that we may  
923 determine whether the likely revenues from entry will exceed the  
924 likely costs. Therefore, no factor should be examined in isolation.

925 Elsewhere in the *Order*, in discussing economic barriers to entry as they apply to all  
926 impairment analyses, the FCC notes that “an entrant that knows that an incumbent LEC has  
927 incurred substantial sunk costs may be disinclined to enter a market because the incumbent  
928 LEC is likely to drop its prices, possibly to levels below average cost, in response to entry.”<sup>49</sup>  
929 This is precisely the phenomenon illustrated in Mr. Notebaert’s interview with the Wall  
930 Street Journal; he emphasizes the importance of existing infrastructure (sunk cost) and  
931 counsels phone companies to “slash prices.”

932 Qwest’s model considers prevailing prices in isolation – to the exclusion of discounts  
933 offered on those prices and “revenues prevailing” at the present time. Importantly, Qwest’s  
934 model does not simply take prevailing prices and perform a straightforward calculation  
935 requiring no consideration of other factors. This is not a possibility. Insofar as price is  
936 considered in a business case analysis, it is an input used to derive revenue. In order to  
937 derive revenue from prevailing prices – ignoring discounts and information about prevailing  
938 revenue – Qwest’s model relies on assumptions about the customers that take service under  
939 the two price plans modeled, and about the proportions of those two types of customers that  
940 will be won by the CLEC. In sum, Qwest has adopted a way to “consider prevailing prices”  
941 that I believe is just wrong – it ignores factors that will affect “a competing carrier’s likely

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<sup>49</sup> *Id.* ¶ 88.

942 revenues,” is contrary to the requirements of the *Order* and to conventional economic  
943 analysis of entry decisions.

944 **Q. HOW DO YOU ARRIVE AT A RANGE OF VALUES FOR**  
945 **REVENUE?**

946 A. The illustrative charts in this testimony are based on a range of residential revenue  
947 from the \$54.10 implied by Qwest’s approach, down by almost exactly 25% to \$40.30.  
948 I regard the prospect of Qwest’s \$54.10 being maintained for 25 years, even by CLECs with  
949 the strongest reputations and longstanding customer relationships, as implausible. I use this  
950 value, nevertheless, as the top of the range. The bottom of the range is defined by the  
951 projected 2004 average expenditure developed above.

952 **C. Churn and Market Share**

953 **Q. IS QWEST’S MODEL BASED ON REASONABLE ASSUMPTIONS**  
954 **ABOUT CHURN AND MARKET SHARE?**

955 A. No. First, like prices and revenue, churn and market share are outcomes of a  
956 competitive process that we have not yet observed. As such, they are subject to a great deal  
957 of uncertainty. It simply cannot be known with any precision what levels of churn are likely  
958 in the world of competition among an incumbent and UNE-L based CLECs and, therefore,  
959 what market share an efficient entrant should project. I provide a range for churn extending  
960 from Qwest’s proposed 3% to a high of 7%, based on MCI’s churn reported in response to  
961 Bench Request 49. Substantially higher churn rates were reported by other carriers, and the  
962 objective of the top of the range is to establish a reasonable maximum, with higher values  
963 considered unlikely.

964 Establishing a range of possible values for market share attainable by a new UNE-L  
965 entrant is inherently somewhat arbitrary, as is Qwest’s assumption that the modeled CLEC

966 grows linearly for 5 years and remains stable for the next 20 years. The FCC's December 22,  
967 2003 release of the *Local Telephone Competition* report calculates a nationwide CLEC share  
968 of end-user switched access lines of 15%, as of June 30, 2003. Thus, if there were 3 CLECs  
969 sharing that percentage equally, each would have 5% of the total. Qwest's support for its  
970 choice of 5% refers to the growth necessary to achieve 5% within 5 years.<sup>50</sup> The UNE-P  
971 growth cited, especially insofar as it comes from early in the development of UNE-P  
972 competition, may not be representative at all of growth rates achievable under UNE-L,  
973 especially considering the much more complicated migration of loops necessary under UNE-  
974 L. Essentially, the range of market share values on which an investor will rely on when  
975 evaluating a UNE-L investment is the range of values that seem likely, considering the  
976 CLEC's business plan for how it intends to win customers away from competitors. While  
977 I regard 5% as plausible, I believe it is quite optimistic, and a reasonable investor would  
978 certainly want to consider the possibility that the implied growth may not be attained. For  
979 the sake of the illustrative charts in this testimony I specify a range from 3% to 5%.

980 **D. Consistency of Inputs**

981 **Q. MR. COPELAND DISCUSSES THE IMPORTANCE OF**  
982 **CONSISTENCY AMONG INPUTS. IS THIS CONCEPT A PART OF**  
983 **THE ECONOMIC LITERATURE?**

984 **A.** Wherever there is a well understood relationship among variables, it would be an  
985 error to adopt values that are inconsistent under that relationship. In the case of the variables  
986 about which Mr. Copeland expresses concern, especially those that will arise from  
987 competition in a UNE-L environment, there is no well understood relationship to be violated.

---

<sup>50</sup> Exhibit PBC-4C at 4.2.4.

988 For example, where price competition is particularly rigorous, one would expect some price  
989 reductions to be successful in attracting customers away from the competition, resulting in  
990 higher churn; that same price competition will also cause revenue per line to fall, unless price  
991 reductions elicit sufficient increases in volume to offset the fall in price. Of course, price  
992 reductions can take many different forms.

993 A recent list of correspondence with the Colorado Public Utilities Commission,  
994 attached as Exhibit RC-11, shows a variety of promotional discounts providing a small  
995 example of the creativity that can be elicited by the force of competition. The list includes  
996 promotional discounts offered by Qwest that suggest opposite relationships between price  
997 and churn. The very first item on the list allows Qwest's sales agents to offer price  
998 concessions to potential customers "that currently subscribe to service from another  
999 telecommunications provider." This type of price concession, if practiced by all firms in the  
1000 market, suggests that the revenue decrease caused by the promotion will be associated with  
1001 an increase in churn as customers move among providers and take advantage of the  
1002 promotions. This would be an inverse relationship between revenue and churn. Promotional  
1003 letter 123, in the middle of the second page provides for price discounts to be offered to  
1004 Qwest customers seeking to discontinue service, if they will continue to take Qwest's  
1005 service. This type of price reduction would result in a revenue decrease associated with a  
1006 decrease in churn, or a direct relationship between revenue and churn.

1007 Beyond price competition, if carriers follow Mr. Notebaert's advice and vie to be  
1008 regarded as providing the best customer service, they may not "slash" price quite so far, but  
1009 rather may increase spending to inform customers of their superior service. This will result  
1010 in an increase in customer acquisition costs, and, insofar as any of the competitors are

1011 successful in attracting new customers, churn will rise. In short, competition can take a very  
1012 wide variety of forms among companies providing services such as modern  
1013 telecommunications services. I do not know what forms competition in the unprecedented  
1014 UNE-L environment will take, and I am very confident that no one else knows. Not being  
1015 able to anticipate exactly the nature of rivalrous behavior that might arise, I cannot anticipate  
1016 the consequences of that behavior for other variables. Mr. Copeland's "consistency among  
1017 inputs" only makes sense when there is a well understood relationship among variables, and  
1018 that is not the case for the variables he mentions.

1019 **E. Other Uncertain Inputs**

1020 **Q. WHAT OTHER INPUTS TO THE CLECs' POTENTIAL**  
1021 **DEPLOYMENT DECISION ARE SUBJECT TO UNCERTAINTY?**

1022 A. In any business case analysis that relies on returns generated as far as 25 years into  
1023 the future, essentially all inputs should be regarded as uncertain. I suspect, for example, that  
1024 the circuit switching equipment specified in the model will be obsolete in 25 years, and all  
1025 technical and cost inputs for such equipment specified today will be incorrect, or irrelevant.  
1026 This does not, of course, imply that the model is conservative by assuming constant costs,  
1027 while technology is likely to improve and reduce costs; competition will force prices to fall  
1028 as well.

1029 **1. Inputs Under Regulatory Control**

1030 **Q. WHAT INFLUENCE DOES THE REGULATORY PROCESS HAVE**  
1031 **ON CLECs' EVALUATION OF A BUSINESS CASE?**

1032 A. Many inputs to a business case analysis are determined in the regulatory process.  
1033 This proceeding will determine an input that is crucial to the business case of UNE-P CLECs  
1034 that invested in an entry strategy that relies on the availability of UNE-P. Investors

1035 contemplating UNE-P entry made assumptions about the continued availability of UNE-P  
1036 entry before choosing to invest, and those assumptions may or may not be borne out after the  
1037 courts, the FCC, and this Commission resolve all the many outstanding questions.  
1038 Improvements in efficiency or reductions in cost of Qwest's hot cut process that may result  
1039 from this proceeding will have a crucial effect on the feasibility of entry under a UNE-L  
1040 strategy.

1041 The fact of this uncertainty cannot be in doubt. The important question for the  
1042 Commission's consideration of the feasibility of potential entry is how CLECs will evaluate  
1043 that uncertainty. The following section discusses uncertainty regarding the UNE loop rate.

1044 **2. Example of UNE Loop Rate**

1045 **Q. THE UNE LOOP RATE IS NOT AT ISSUE IN THIS PROCEEDING.**  
1046 **HOW IS IT RELEVANT TO A POTENTIAL DEPLOYMENT**  
1047 **ANALYSIS?**

1048 A. As the FCC noted in the *Triennial Review Order*, "no party seriously contends that  
1049 competitors should be required to self-deploy voice-grade loops."<sup>51</sup> The price paid to the  
1050 ILEC for UNE loops is a critical input to the business case for UNE-P or UNE-L entry, but,  
1051 if possible, it is more critical for a UNE-L strategy. The correct UNE loop rate for a business  
1052 case analysis is the rate that the CLEC expects to prevail over the life of the investment – 25  
1053 years in Qwest's potential deployment model. If the CLEC evaluating the potential for  
1054 UNE-L deployment believes that UNE loop rates will fall, then, other things being equal, the  
1055 business case for UNE-L entry looks more attractive. If the CLEC has reason to believe that  
1056 the UNE loop rate may rise, then the business case will be less attractive. With the FCC's

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<sup>51</sup> *Triennial Review Order* ¶ 439.

1057 TELRIC NPRM proceeding in progress, a CLEC considering the economic feasibility of  
1058 incurring very substantial sunk costs under a UNE-L entry strategy will certainly consider the  
1059 possibility that UNE loop rates might rise sometime over the next 25 years.<sup>52</sup>

1060 **Q. HOW COULD THE UNE LOOP RATE BE MORE CRITICAL TO**  
1061 **THE UNE-L ENTRANT THAN UNDER UNE-P?**

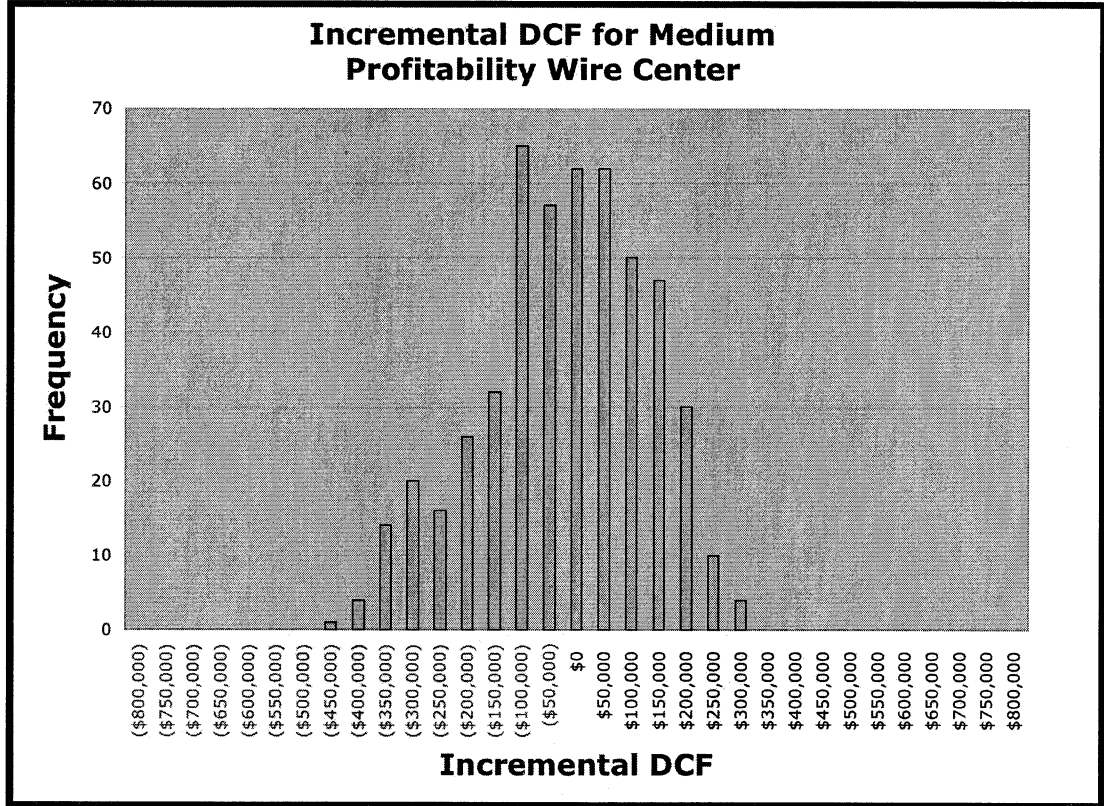
1062 A. UNE loops are a necessary input under either entry strategy, and enter into the  
1063 calculation in exactly the same way for either entry strategy. Nevertheless, *uncertainty* about  
1064 future UNE loop rates is more important to a CLEC evaluating the potential for deployment  
1065 of facilities for a UNE-L strategy. As the FCC noted: “Sunk costs, particularly when  
1066 combined with scale economies, can pose a formidable barrier to entry. Sunk costs increase  
1067 risk as well as an entrant’s cost of failure, which in turn can increase the cost of capital and  
1068 discourage entry.”<sup>53</sup> Because sunk costs and scale economies are much larger factors under  
1069 the UNE-L strategy, the effect of uncertainty regarding such an important input price is  
1070 magnified in importance for potential UNE-L entrants. The following two charts repeat the  
1071 earlier analysis of uncertainty in the outcome of Qwest’s business case analysis for the wire  
1072 center labeled “medium profitability,” but does so under the assumption that loop rates will  
1073 rise by 20 percent.

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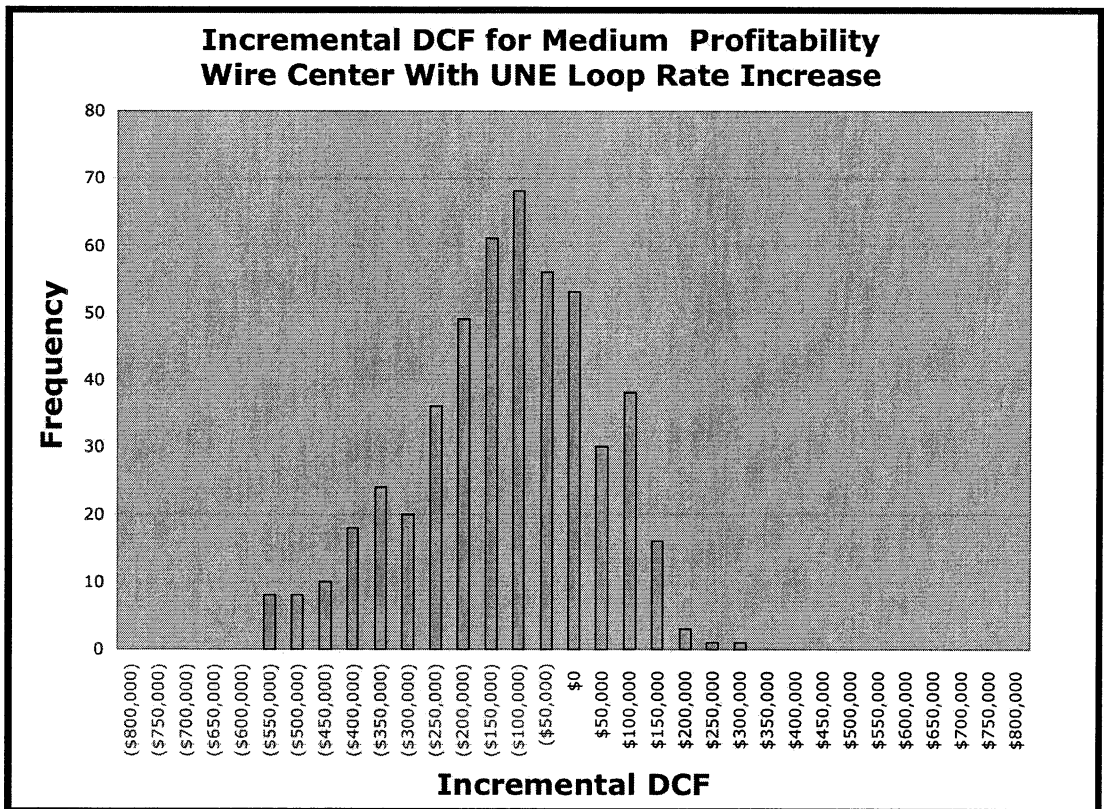
<sup>52</sup> Due diligence for an investment project as large as UNE-L entry would probably require the CLEC considering potential deployment to read the TELRIC NPRM and form an opinion about its possible implications for UNE loop rates, and, importantly, for the relative certainty that can be attached to the stability of existing rates. *See* In the Matter of Review of the Commission’s Rules Regarding the Pricing of Unbundled Network Elements and the Resale of Service by Incumbent Local Exchange Carriers, WC Docket No. 03-173, *Notice of Proposed Rulemaking*, FCC 03-224, Released September 15, 2003.

<sup>53</sup> *Triennial Review Order* ¶ 88.





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**VI. CONCLUSION**

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**Q. PLEASE SUMMARIZE YOUR CONCLUSIONS.**

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A. After examining the evidence presented by Qwest I cannot conclude that CLECs are not impaired without access to the local switching UNE, either in the MSAs proposed by Qwest as the proper market definition, or in wire centers, which I believe is the correct market definition. Qwest's trigger analysis fails at the level of the MSA market definition, primarily by seeking to count CLECs with very limited geographic coverage of the market. Examined at the level of wire centers, where I initially presume that CLECs accomplish complete geographic coverage of the wire center serving area by virtue of collocation in the wire center, Qwest's trigger analysis fails, primarily by proposing to count CLECs that do not serve residential customers.

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Qwest's potential deployment analysis fails under a MSA market definition because Qwest's own potential deployment model does not show a positive business case for a large number of wire centers. The implication is that, even under the prediction of Qwest's own model, customers in these wire centers will not see offers of UNE-L service to replace existing UNE-P providers if the Commission were to make a finding of no impairment. The argument that CLECs will choose to enter wire centers where they do not expect to recover their costs is simply not credible.

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I have considered the evidence offered in favor of using MSAs to define markets, and find that this approach is unsupported by the observed geographic pattern of UNE-L entry, or by any other rationale, and will not yield useful information for the decisions at hand. In particular, expanding markets beyond wire centers, but within the State, is neither necessary nor sufficient to allow a modeled CLEC to take advantage of economies of scale. As I noted

1098

1099 in my direct testimony, defining markets at the wire center level is the most accurate  
1100 approach within the bounds of practicality, and expanding beyond the wire center introduces  
1101 inaccuracy as well as practical difficulties.

1102 Finally, I conclude that Qwest's potential deployment model does not provide an  
1103 adequate basis for the Commission to determine that a market is suitable for "multiple,  
1104 competitive supply," even though actual deployment is insufficient to satisfy the  
1105 requirements of the trigger analysis. The *Triennial Review Order* requires that "[i]n judging  
1106 whether entry is economic, states must also consider how sunk costs and competitive risks  
1107 affect the likelihood of entry."<sup>54</sup> The model is not designed to take account of sunk costs.  
1108 I derive some illustrative charts from the model's results with some input values that allow  
1109 for the possibility of uncertainty regarding future conditions, but the model itself is not  
1110 designed to evaluate the "formidable" barrier to entry that can arise in cases where there are  
1111 important sunk costs.

1112 **Q. DOES THIS CONCLUDE YOUR TESTIMONY?**

1113 **A.** Yes, it does.

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<sup>54</sup> *Id.* ¶ 517.

**Docket No. 030851-TP**  
**BellSouth Telecommunications Inc.'s Second Set of Interrogatories**  
**to Allegiance Telecom of Florida, Inc.**

**Question**

95. Describe the criteria you consider to enter a specific market offering qualified services. In your response please detail how, and the extent to which, you rely on both business customers and residential customers to meet the financial criteria. Also identify the criteria used to select the customers that are marketed to or contacted in your marketing campaigns.

**Answer**

Allegiance deployed a switch in Miami as part of its strategy to become a national local service provider. The geographic location of the switch was based on several factors including minimizing backhaul costs from collocation sites, space availability and where Allegiance could get access to CAPs.

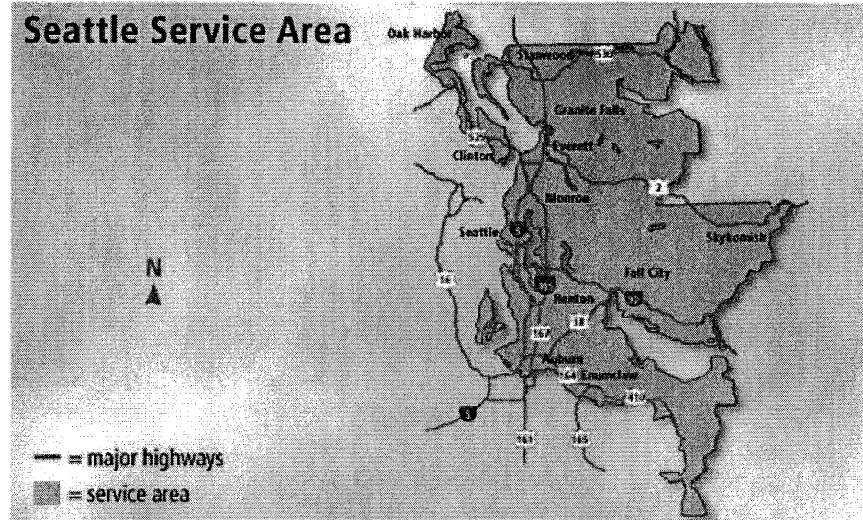
The single most important criterion for Allegiance in determining where to build a collocation is the number of lines served by the individual wire center. Given the costs of collocation construction, equipment, power, and the like, a CLEC must be reasonably confident it can acquire enough customers in a wire center to cover those costs and earn a profit in order to proceed with construction of the collocation. Allegiance generally has not built collocations in wire centers with fewer than 9,000 - 10,000 business lines.



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| Burien     | Renton     |
| Everett    | Seattle    |

Note: Some products and services are not available in all locations.

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UT-033044

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**THE WALL STREET JOURNAL.**  
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January 19, 2004

**BOSS TALK****Now Comes the Hard Part**

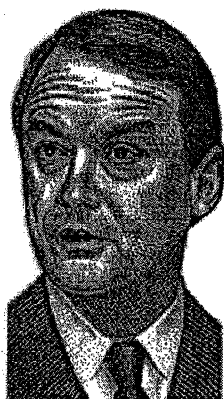
**Having Rescued Qwest,  
 Notebaert Sees Bells' Future  
 Depending on Service, Internet**

By **ALMAR LATOUR**  
 Staff Reporter of THE WALL STREET JOURNAL

Just 18 months ago, **Qwest Communications International Inc.** was on the verge of bankruptcy. Mired in an accounting scandal and laden with debt, the Denver-based local and long-distance carrier saw its shares drop from a high of \$66 in 2000 to just over \$1 in 2002. Qwest offered wireless service in only part of the country. And the company had a terrible reputation with customers.

Today, Qwest's prospects are looking up. It slashed \$8.5 billion off its debt and teamed up with **Sprint Corp.** to offer wireless service nationwide -- instead of only in its home region of 14 Central and Western states. The telecom company is getting into the video business by striking marketing deals with satellite-TV companies **EchoStar Communications** and **DirecTV**. Recently, Qwest even made a \$390 million bid for the assets of **Allegiance Telecom**, under bankruptcy-court protection.

Much of the credit for these changes goes to **Richard C. Notebaert**, who took the helm in June 2002 after Qwest's board ousted **Joseph P. Nacchio**. Unlike the flashy, fast-talking Mr. Nacchio, who wore Italian suits, Mr. Notebaert, who is 56 years old, more resembles a clean-cut Boy Scout. He favors clothes bearing the Qwest logo -- down to his pajamas. A no-nonsense manager, the chairman and chief executive officer has pushed to improve the company's accounting practices. He shuns consultants to help foster change.



**Richard C. Notebaert**

A lifelong telecom veteran, Mr. Notebaert concedes he has much work left to do. Investigations from the Securities and Exchange Commission and the Department of Justice are still pending. Qwest's debt, at more than \$17 billion, remains high. And just as Mr. Notebaert is getting Qwest's financials back on track, such regional phone companies are facing unprecedented challenges to their decades-long monopoly of local phone service.

In a recent interview Mr. Notebaert didn't mince words, saying he will embrace low-cost calls that use Internet technology and throwing water on plans to build fiber lines to every U.S. home. Excerpts follow:


**MORE ON QWEST**

- Vonage, TI Plan a Web-Phone Deal<sup>1</sup>  
01/09/04
- Portals: Can Web Calling Rescue Telecoms?<sup>2</sup>  
12/29/03
- Qwest Discloses Restated Results<sup>3</sup>  
10/17/03

DOW JONES REPRINTS

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**WSJ: Qwest, like many companies in the telecom industry and beyond, has faced scandal and near-bankruptcy. How do you reinvigorate the work force, and regain credibility with regulators and investors?**

**Mr. Notebaert:** First, refuse to look back. On occasion, I say, 'I didn't come to Qwest with a rearview mirror, but I've got a big windshield.' If you want to dwell on the past don't take me with you. Play the hand you're dealt. Second, create transparency and be accessible. Everyone knows they can send me an e-mail and get a response within 24 hours.

**Competition in the telecom industry is increasing rapidly, as new technologies allow new players to aggressively enter the market. Where does that leave the large regional phone companies?**

At this point, the Bells' phone-line monopolies are gone. It's history. It's over. Phone service has become a commodity because I can get dial tone in Denver or Atlanta or New York or Los Angeles from seven to 10 different companies, without any problem. I can get five or six wireless companies. I can get the [local] telephone company, the incumbent local exchange carrier. Or I can get it from a small company or a large company like MCI or Sprint. Or I can get telephony over the Internet as an information service. Now, if you are going to compete, you have to compete with a commodity mind-set.

**How will large phone companies have to adjust to life as a commodity business?**

If you accept that we're a commodity -- and not everyone does -- then you realize that most commodities in the early stages operate within a deflationary pricing model. That means, in order to differentiate yourself, you have to have outstanding service. ... I am not talking about a customer's phone line being up or down. I am talking about when a customer calls in with a question or a problem, they'll have to have a great experience. Our customer-service people will stay on the phone with customers. They'll be a customer's advocate. They tell you, oh, you can get a better price if you do this or that. ... You also have to price your service as a commodity.

**With thousands of employees and big networks, how can you change your cost structure?**

Traditionally, Bells have been geared to offering voice service, and we piggybacked data service on top of voice service. If you have to have a low cost structure and a superb commodity pricing with a deflationary pricing model, you have to really be efficient. You need an architecture that's optimized for data or information services -- and lay voice on top of it. So, that means you switch your network to voice over Internet protocol. We've started offering an Internet-based voice service in Minnesota and we'll expand that.

**You have raised eyebrows by pushing the growth of Internet-based phone calls. Do you see phone companies offering Internet-based telephony nationwide?**

It seems to me it is a no-brainer, because we've got the

UT-033044

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equipment deployed. We've got the gateways and the switches. ... We can do it at little additional cost. For the moment, though, we are focused on getting the service off the ground in Minnesota. It is not the technology, but the delivery of the service that is the issue. It is the operations and support systems that have to be totally deep enough, so that customer-service experience is not at risk.

**When a new CEO arrives at a company that has gone through a roller coaster of events, how does he or she spread a new gospel?**

You hire a bunch of apostles and they bring in a bunch of disciples and then folks that don't want to sign up can go to a different religion. Just like Jack Welch did [at General Electric]. We didn't bring in any consultants, no motivational speakers, no grief counselors. It was an organic movement.

**Do you have any advice for other CEOs in the same situations?**

Three things that I think make people successful: Passion for what you do, global communication, and passing the newspaper test -- anything I do is on the front page of the newspapers, and if I'm embarrassed, I fail the test.

**How do you emphasize the importance of ethics to a work force of thousands?**

Every talk I give I talk about ethics. ... I like to say there is a right way to do things. It is like cheating with a golf score. I have never understood that. Why would you cheat on your golf score? You are just going to lose the next match because your handicap is too low. And if you shoot the other way everybody is going to think you are a sandbagger and not play with you. By the way, my golf game stinks since I got here.

**Verizon Communications Inc. and BellSouth Corp. have announced that they want to roll out costly fiber technology, which will eventually allow them to offer video to customers via their own networks. Are you a believer in connecting fiber to homes on a large scale?**

You have to look at the economics of fiber to the home and ask yourself if other technologies such as wireless data transmission don't redefine the economic model for that huge capital investment in fiber. I question if, in our country, we will run fiber to every home. I think the economics of fiber aren't there.

**How does one go into Boulder, Colo., or apartment buildings in New York City that have been there for so long, rip everything out and put in new wires? That won't be easy. It is hard for us to look at the economic model and invest in fiber to the home.**

**So if not through fiber, how else can phone companies compete with cable companies, which offer phone service through cable lines along with hundreds of TV channels and broadband?**

There are lower-cost alternatives to fiber. There is going to be commercial availability of 802.16 [a wireless technology that can transmit large quantity of data at broadband speed in a limited

## LIFELINE

### 5 Ways to Save the Regional Phone Companies, says Richard Notebaert

- Put the customer at the center of the universe.
- Accept that you're a commodity. Slash your prices.
- Drastically cut your costs.
- Use what you've got. Don't build costly new infrastructure.
- Embrace low-cost new technologies -- don't fight them.

UT-033044

EXHIBIT RC-9

area] probably by late next year. We're looking at that as an alternative.

### **Do phone companies really have to offer video to customers?**

We have to offer video, but we can't build and own everything. We can strike partnerships -- a wholesale arrangement with a satellite group. As long as our wholesale arrangement with the satellite company provides us enough margin to cover costs, make a little profit and have a price point that is exceedingly competitive, this is a good thing. And look at what it does for the shareholder: I don't have to deploy billions of dollars.

So I look at it and say, do we have to own every piece of infrastructure? No, but we got to have the customer relationship so we can create a good service experience so people will say I want to do business with you. I can buy a wrench at a half a dozen outlets. Why do I go to one versus another? Same wrench. Place is close. The difference is: I like the store. I like Home Depot. I like going to Home Depot. Service makes the difference.

### **Marketing and wholesale partnerships have a mixed track record, at best. How can companies make sure that these partnerships are meaningful?**

That's why you have a contract. ... Partnerships today have a different dynamic than five years ago. Customers don't care what the infrastructure behind a service looks like. They just want the service to work. To avoid misunderstandings in a partnership you have to go very deep into details. For example, maybe you get a wholesale price of X. Three months from now, that price is too high. You have to have the flexibility to review that and then benchmark it against some standard.

Write to Almar Latour at [almar.latour@wsj.com](mailto:almar.latour@wsj.com)<sup>4</sup>

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*Updated January 19, 2004*

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**FIXED UTILITIES  
 NEW APPLICATIONS AND ADVICE LETTERS**

**LIST PREPARED January 23, 2003  
 BY: Sandy Potter**

DATE FILED	ITEM – DESCRIPTION	PROPOSED AGENDA	STAFF ASSIGNED
1-20-04	<b>Promotional Letter No. 122.</b> Qwest Corporation. During a promotional period from February 4, 2004 through April 30, 2004, new residence and business customers that currently subscribe to service from another telecommunications provider may be offered either a waiver of the current nonrecurring charge(s), up to two months credit of the current monthly rate(s), or both, on selected services, as determined by the Company. Proposed effective date 2-4-04.	1-28-04	Roxi Nielsen
1-20-04	<b>Advice Letter No. 81.</b> McLeodUSA Telecommunications Services, Inc. Filing to introduce Group Billing; reduce On-Line Preferred Package rates for business customers; introduce Individual Feature Options; and update Integrated Access-Trunk and Integrates Access-Line product descriptions. Proposed effective date 2-21-04.	2-11-04	Jamie Jack Roxi Nielsen
1-20-04	<b>Docket No. 04A-033G.</b> Aquila, Inc. d/b/a Aquila Networks-PNG. Application for a Certificate of Public Convenience and Necessity to provide Natural Gas Public Utility Services in the Town of Ellicott, El Paso County Colorado, and within the surrounding area. Notice period expires 2-20-04. In accordance with 4 CCR 723-1, Rule 70, application will automatically be deemed complete on 3-8-04 unless Commission action is taken in the alternative. If application if automatically deemed complete on 3-8-04, Staff intervention due no later than 3-18-04.	3-3-04	Billy Kwan
1-20-04	<b>Promotional Letter No. 17.</b> McLeodUSA Telecommunications Services, Inc. <b>The Great Switched Long Distance Rate Promotion</b> for business customers. This promotion will begin February 5, 2004 and end April 30, 2004. Proposed effective date 2-5-04.	2-4-04	Jerry Enright
1-20-04	<b>Promotional Letter No. 18.</b> McLeodUSA Telecommunications Services, Inc. <b>The Great Dedicated Long Distance Rate Promotion</b> for business customers. This promotion will begin February 5, 2004 and end April 30, 2004. Proposed effective date 2-5-04.	2-4-04	Jerry Enright
1-20-04	<b>Promotional Letter No. 19.</b> McLeodUSA Telecommunications Services, Inc. <b>Premium Package Promotion</b> for business customers. This promotion will begin February 5, 2004 and end April 30, 2004. Proposed effective date 2-5-04.	2-4-04	Jerry Enright

1-20-04	<b>Transmittal Letter No. 253.</b> Sprint Communications Company. Filing to make miscellaneous text changes. Proposed effective date 2-4-04.	1-28-04	Roxi Nielsen
1-20-04	<b>Docket No. 04A-034T.</b> Allegiance Telecom of Colorado, Inc. and Qwest Corporation and Qwest Communications Corporation. Application for approval of the transfer of assets of Allegiance Telecom of Colorado, Inc. and request for waivers pursuant to C.R.S. 40-5-105; Rule 25-8; 4 CCR 723-25-8; and Rule 70. Notice period expires 2-23-04. In accordance with 4 CCR 723-1, Rule 70, application will automatically be deemed complete on 3-9-04 unless Commission action is taken in the alternative. If application is automatically deemed complete on 3-9-04, Staff intervention due no later than *3-19-04.	3-3-04	Bill Steele John Trogonoski
1-20-04	<b>Advice Letter No. 1.</b> ACN Communications Services, Inc. Filing to implement initial Local Exchange Services and Emerging Competitive tariff pursuant to Decision No. C03-0718, in Docket No. 03A-237T. Proposed effective date 2-21-04.	2-11-04	Roxi Nielsen Walter Gaines Ellie Freidman
1-21-04	<b>Promotional Letter No. 123.</b> Qwest Corporation. During a promotional period from February 5, 2004, through May 4, 2004, business and residential customers who request to have one or more products disconnected, and after having been informed of the products benefits, may be offered a 50% discount on monthly recurring charge for two months in the form of a credit(s) to their next bills, if they agree to retain the product(s). This promotion applies to both business and residential customers. Proposed effective date 2-5-04.	2-4-04	John Trogonoski
1-21-04	<b>Advice Letter No. 23.</b> Time Warner Telecom of Colorado, LLC. Filing to introduce Low Income Telephone Assistance Fund, rates for PBX Analog Trunk IBL/VersiPak Customers and revise the rates for PBX Digital Trunk and PRI Services. Proposed effective date 2-7-04.	2-4-04	Jamie Jack Roxi Nielsen
1-21-04	<b>Promotional Letter No. 69.</b> Sprint Communications Company. Filing to change the end date for the <b>\$100 Voucher Promotion</b> originally submitted in Promotional Letter No. 63 from April 3, 2004 to February 28, 2004. Proposed effective date 2-5-04.	2-4-04	Roxi Nielsen
1-21-04	<b>Promotional Letter No. 70.</b> Sprint Communications Company. Filing to change the end date for the <b>\$50 Voucher Promotion</b> originally submitted in Promotional Letter No. 64 from April 3, 2004 to February 28, 2004. Proposed effective date 2-5-04.	2-4-04	Roxi Nielsen
1-21-04	<b>Advice Letter No. 63.</b> Phillips County Telephone Company. Filing in compliance with Decision No. R03-1466, implementing new access rates. Proposed effective date 1-22-04.	Compliance	

1-21-04	<b>Docket No. 04A-038G.</b> Public Service Company. Application for an order approving its Refund Plan, authorizing it to credit the cost of gas for suppliers' refunds received, and further distribution of said refunds. Notice period expires 2-23-04. In accordance with 4 CCR 723-1, Rule 70, application will automatically be deemed complete on 3-9-04 unless Commission action is taken in the alternative. If application is automatically deemed complete on 3-9-04, Staff intervention due no later than 3-19-04.	3-3-04	Billy Kwan
1-21-04	<b>Docket No. 00T-423.</b> Qwest Corporation and Z-Tel Communications, Inc. Report of Adoption of Interconnection Agreement. Commission decision must be rendered by 4-20-04.	2-11-04	John Epley
1-21-04	<b>Docket No. 04T-041.</b> Qwest Corporation and Rocky Mountain Telecom, Inc. Report of Adoption of Interconnection Agreement. Commission decision must be rendered by 4-20-04.	2-11-04	John Epley
1-22-04	<b>Amended Advice Letter No. 4.</b> Xspedius Management Co. Switched Services, LLC. Filing to make corrections to page 159.01 submitted in the original filing. Proposed effective date 2-17-04.	2-4-04	Karl Kunzie
1-22-04	<b>Advice Letter No. 2.</b> Consolidated Communications Services, Inc. Filing to introduce Rate Plans 2 and 3, and make text and rate changes to the Non-subscriber Service Charge. Proposed effective 2-22-04.	2-11-04	Jerry Enright
1-23-04	<b>Docket No. 04M-009T.</b> Qwest Corporation. Customer Specific Contract # 035.	2-4-04	Roxi Nielsen
1-23-04	<b>Amended Promotional Letter No. 122.</b> Qwest Corporation. Filing to clarify the language of the original promotion. This promotion will begin 2-4-04 and end April 30, 2004. Proposed effective date 2-4-04.	1-28-04	Roxi Nielsen
1-23-04	<b>Advice Letter No. 41.</b> Sprint Communications Company. Filing to remove the rates and regulations associated with the Local Number Portability. Proposed effective date 2-9-04.	2-4-04	Roxi Nielsen
1-23-04	<b>Docket No. 04J-043T.</b> Touch America, Inc. Notice of intent to discontinue telecommunications services where no customers are affected.		Jerry Enright

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Compliance Filings not appear on the agenda.