

BEFORE THE
WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

In the Matter of the)
Joint Petition of)
Verizon Communications Inc. and) **Docket No. UT-050814**
MCI, Inc.)
)
for Approval of Agreement and Plan)
of Merger.)

REBUTTAL TESTIMONY OF
DR. WILLIAM E. TAYLOR
ON BEHALF OF
VERIZON COMMUNICATIONS INC. AND
MCI, INC.

REDACTED VERSION

October 6, 2005

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1 **I. INTRODUCTION AND SUMMARY**

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

3 A. My name is William E. Taylor. I am a Senior Vice President of NERA Economic
4 Consulting (“NERA”), head of its Communications Practice, and head of its
5 Boston office located at 200 Clarendon Street, Boston, MA 02116.

6 **Q. ARE YOU THE SAME WILLIAM TAYLOR WHO PREVIOUSLY**
7 **SUBMITTED TESTIMONY IN THIS PROCEEDING?**

8 A. Yes, I submitted direct testimony in this proceeding on June 28, 2005, on behalf
9 of Verizon Communications Inc. (“Verizon”) and MCI, Inc. (“MCI”)
10 (collectively, the “Parties”).

11 **Q. WHAT IS THE PURPOSE OF YOUR REBUTTAL TESTIMONY?**

12 A. The purpose of my rebuttal testimony is to respond to claims made in the
13 testimonies submitted on September 9, 2005, by Thomas L. Wilson, on behalf of
14 the Staff of the Washington Utilities and Transportation Commission (the
15 “WUTC”), Don J. Wood, on behalf of XO Communications Inc. and Covad
16 Communications Company (“XO”), Trevor R. Roycroft, on behalf of the Public
17 Counsel Section of the Washington Attorney General (the “PC”), and Joseph
18 Gillan, on behalf of Covad Communications Company (“Covad”). I address,
19 among other things, Mr. Wilson’s discussion of market concentration; Mr.
20 Wood’s claims about the competitive impact of the merger on what he considers
21 the market for midsized businesses; Dr. Roycroft contentions about competitive

1 and policy issues associated with the merger; and, Mr. Gillan claims about the
2 effect of the transaction on services provided over the Internet backbone.

3 **Q. PLEASE SUMMARIZE YOUR CONCLUSIONS REGARDING THE**
4 **INTERVENORS' ANALYSES OF THE EFFECTS OF THE**
5 **ACQUISITION, IF ANY, ON COMPETITION.**

6 A. My review of the intervenors' testimony does not change my conclusions
7 regarding the competitive effects of the merger—that is, it will not adversely
8 affect mass market or enterprise competition in Washington. The Commission
9 should assess the *incremental* effects of the transaction and should not allow the
10 intervenors' unfounded claims regarding the amount of market power that
11 Verizon allegedly has today to distract from the key competitive issue to be
12 examined here—that is, whether the transaction will substantially increase the
13 companies' power to control prices in Washington. The data show that the
14 merger will not have that result.

15 • MCI's mass market business is and has been in a continuing and
16 irreversible decline. As discussed in my Direct Testimony (at 55),
17 MCI does not offer facilities-based mass market local services in
18 Washington and the relatively low UNE-P rates on which MCI's
19 mass market business has depended have been replaced with
20 higher rates under commercial contracts. MCI has already begun
21 to increase the rates it charges retail customers served using the
22 UNE-P replacement product. Further, because MCI's commercial
23 agreement with Verizon provides for additional increases in MCI's
24 costs each year, it is likely that MCI would continue to increase its
25 retail rates for mass market customers, rendering it less
26 competitively attractive in the eyes of consumers. Thus, regardless
27 of how the market is defined, the merger will not harm competition
28 for residential or small business customers because MCI does not
29 now and would not in the future constrain Verizon's prices for
30 services provided to those customers.

- 1 • In addition to the fact MCI’s mass market business is in a
2 substantial and irreversible decline, it is clear that competition for
3 these customers will not be harmed because: (1) there are
4 numerous alternative services available; and (2) there are no longer
5 substantial barriers to entry into the mass market as evidenced by
6 that fact that cable and wireless companies have already deployed
7 their own “last mile” facilities in many areas of the state and are
8 already using them to provide residential customers service,
9 including voice services, in competition with Verizon.
- 10 • Enterprise customers are sophisticated purchasers of
11 communications services who typically use competitive
12 procurement methods to obtain high quality, competitively priced
13 services from a diverse array of providers, including interexchange
14 carriers (“IXCs”), global systems network providers, competitive
15 and data local exchange carriers (“CLECs/DLECs”), systems
16 integrators, equipment manufacturers, wireless providers, cable
17 companies and VoIP providers.
- 18 • Verizon and MCI are not major competitors for enterprise
19 customers. In fact, an internal study of more than 800 instances
20 where MCI bid on enterprise contracts between October 1, 2004,
21 and April 20, 2005, showed that Verizon was not a bidder in more
22 than 96 percent of them.
- 23 • MCI’s facilities overlap with Verizon’s in Washington is
24 extremely small, and in areas where overlap exists, other
25 competitors have deployed fiber.
- 26 • MCI is not uniquely situated as a purchaser or reseller of special
27 access.
- 28 • Other CLECs currently serve many more buildings in Verizon’s
29 territory in Washington than MCI. Other CLECs also serve some
30 of the buildings served by MCI and have fiber facilities close to the
31 remaining buildings.
- 32 • Verizon and SBC already compete with each other out-of-region,
33 and, consistent with the principal purpose of the transaction,
34 Verizon will continue to compete with SBC out-of-region when

1 the transaction is completed. Claims that these two companies will
2 collude to inflate prices for these services are nonsensical.

3 The data provided by the other parties substantiates these conclusions, despite the
4 fact that their analyses are flawed in ways that understate the degree of
5 competition faced by Verizon and overstate the effects of the merger on market
6 power.

7 • As in my analysis, Mr. Wilson recognizes the significance of
8 intermodal competition, stating:

9 Much more activity is occurring in the relevant market than
10 appears under direct Commission oversight. For example,
11 intermodal offerings of analog and digital services via wire and
12 non-wireline transmission technologies are often presented as
13 competitive alternatives, in whole or in part, to what Verizon
14 currently offers in the relevant market.

15 Applicants both compete with VOIP/Internet, cable TV companies,
16 wireless (wi fi, wi max, microwave, low-earth-orbit satellite),
17 public utility districts (PUDs), Noanet, municipal networks and
18 private/public partnerships, and broadband over power line (BPL),
19 to name a few unregulated alternatives. ***I do not dispute that***
20 ***intermodal competition should be an important element of the***
21 ***analysis....***

22 • Although Mr. Wilson incorrectly excludes these alternatives from
23 his subsequent analyses, his results nevertheless show that the
24 merger will not harm competition for any of the service types that
25 he analyzes.

26 - For “residential local exchange lines,” Mr. Wilson states (at 14) that
27 “MCI is Verizon’s number one competitor, with 0.7 percent market
28 share ***and virtually no market power.***” Of course, if MCI has
29 “virtually no market power” or market share, the merger cannot
30 possibly cause harm for residential customers. This is particularly so
31 given that Mr. Wilson’s analysis of residential local exchange lines
32 excludes intermodal options and the current market share data that he
33 used in his analysis ignores MCI’s downward trend for residence
34 services. Had Mr. Wilson included these alternatives and considered

1 MCI's declining market share in his analysis, it would show that
2 MCI's insignificance as a competitor is even more pronounced.

3 - For "business local exchange service," Mr. Wilson finds (at 16) that
4 "MCI is the seventh largest CLEC, selling business local exchange
5 services to less than one percent of the lines" and that "after the
6 merger Verizon's market power will increase in two wire centers from
7 below 5,000 to above 5,000 and its market share will increase by less
8 than one percent." Moreover, his pre- and post-merger average
9 business access line HHI increases by only 59 points. Even accepting
10 Mr. Wilson's analysis as accurate (and it is not), it only serves to prove
11 that the transaction presents no concern for competitive harm to
12 "business customers."

- 13 • Similarly, Dr. Roycroft's HHI calculations present no basis for
14 concluding that the transaction will adversely affect mass market
15 competition. Although Dr. Roycroft uses a static analysis that
16 disregards intermodal competition and MCI's decision to manage
17 the decline of its mass market business, it shows the merger would
18 increase Verizon's market share by only about eight-tenths of
19 1 percent for residence and nine-tenths of 1 percent for business,
20 and the HHIs would increase by only 163 for residence and 114 for
21 business.

22 As I explain below, the intervenors' analyses are flawed because they define the
23 relevant markets incorrectly, and they rely to an undue extent on HHI calculations
24 that reflect their flawed market definitions; therefore, they distort the transaction's
25 impact on competition. Yet, regardless of whether the Commission accepts my
26 definition of the relevant market or one of the intervenors' proposed definitions,
27 the transaction will not harm competition for mass market customers because:

- 28 • MCI has never focused on the mass markets as defined by the
29 intervenors. Both Dr. Roycroft and Mr. Wilson claim that the
30 relevant markets consist of "local exchange lines (residential and
31 business local exchange service)." However, since it entered the
32 area served by Verizon in Washington, MCI never focused on any
33 of these "markets." Rather, as anyone familiar with MCI's "The
34 Neighborhood" plan knows, MCI has focused its mass market
35 efforts on providing *bundled* local and long distance services to

1 residential customers. Thus, the proposed transaction has little
2 adverse impact, if any, on competition as MCI does not focus on
3 any of the “markets” intervenors have defined or considered in
4 their analyses.

- 5 • While Verizon’s basic local exchange rates average about \$22 per
6 line for flat rate basic local residential exchange service, MCI’s
7 Neighborhood offering costs residential customers about \$50 per
8 line per month. Moreover, as shown below, MCI’s rates are higher
9 than those of other competitors’ bundled service offerings. Thus,
10 MCI’s price does not constrain Verizon’s basic exchange rates.

11 I discuss all of these shortcomings and conclusions in detail later.

12 **Q. HOW IS THE REST OF YOUR TESTIMONY ORGANIZED?**

13 A. In Section II, I discuss Mr. Wilson’s and Dr. Roycroft’s analyses of mass market
14 competition (by which I mean competition for residential and small business
15 customers) in Washington. I demonstrate the flaws in those analyses and the
16 fallacies and inconsistencies in the witnesses’ conclusions based on those flawed
17 analyses. In Section III, I demonstrate that the proposed transaction will not
18 adversely affect enterprise competition (by which I mean competition for
19 medium- to large-sized business customers) in Washington. In particular, I
20 respond to Mr. Wood’s claim that midsized businesses constitute a separate
21 market for which the transaction would cause harm. I explain that his market
22 definition is overly narrow and discuss the fallacies in his market structure and
23 analyses. I also address why the transaction will not harm competition for
24 wholesale fiber facilities or for Internet backbone services, and why an expansion
25 of the unbundling obligations, as suggested by Mr. Wood, is not justified.

1 **II. THE TRANSACTION WILL NOT HARM COMPETITION FOR MASS**
2 **MARKET CUSTOMERS IN WASHINGTON**

3 **Q. HOW DO YOU DEFINE THE MASS MARKET?**

4 A. In my Direct Testimony (at 48), I defined the mass market to include residential
5 and small business customers, who typically buy local, long distance, and other
6 services (such as Caller ID, call waiting, and other vertical features) as a bundle of
7 services.

8 **Q. WHAT DID YOU CONCLUDE ABOUT THE TRANSACTION'S EFFECT**
9 **ON COMPETITION FOR MASS MARKET CUSTOMERS IN**
10 **WASHINGTON?**

11 A. The merger will not harm competition for mass market customers in Washington
12 for at least two reasons: MCI's mass market business is in a state of irreversible
13 decline; and (2) numerous other competitors are already serving mass market
14 customers in competition with Verizon in Washington.

15 **Q. WHAT MAJOR SOURCES OF MASS MARKET COMPETITION WILL**
16 **REMAIN IN PLACE EVEN WITH THE MERGER?**

17 A. Competition will continue to come from CLECs, cable companies providing
18 digital telephony, wireless providers, broadband and Internet services providers,
19 and VoIP providers. The transaction will not harm intermodal competition, which
20 is already making significant inroads into Verizon's wireline services and which
21 is expected to grow substantially in the near term.

1 **Q. HOW DO YOU RESPOND TO THE CRITICISMS BY THE**
2 **INTERVENORS REGARDING YOUR ASSESSMENT OF THE**
3 **MERGER?**

4 A. The intervenors either incorrectly read my testimony or simply do not understand
5 it. Further, as I said before, no reasonable analysis can show any market power
6 impact when the transaction consolidates market shares of less than 1 percent
7 from a provider whose mass market business is steadily declining anyway. Those
8 facts alone are enough to conclude the inquiry, in full compliance with the *Merger*
9 *Guidelines*, and no amount of verbiage or incorrect HHI calculations can show
10 otherwise. In any event, the criticisms should be rejected for several reasons.

11 *First*, the *Merger Guidelines* do not prescribe the kind of rote application of
12 market definition or HHI analyses that Mr. Wood and Dr. Roycroft claim I should
13 have considered here. Rather, they merely provide a useful organizing device for
14 considering issues related to market definition, market power, and competitive
15 effects. In addition, the intervenors have misapplied the *Merger Guidelines* in
16 this environment of rapid technological change.

17 *Second*, contrary to the intervenors' claims, my definition of the "mass market" is
18 consistent with economic principles and the *Merger Guidelines*' approach to
19 defining a relevant market. As I explained in my Direct Testimony (at 5) and
20 explain in detail here, the services provided by cable companies, wireless
21 companies, Internet and broadband services providers, and VoIP providers are all
22 sufficiently close substitutes and should be included in the relevant market to be

1 analyzed. These services currently constrain the price of Verizon's wireline
2 residential basic local exchange service and, in fact, would constrain a
3 hypothetical wireline monopolist's effort to raise prices above competitive market
4 levels. The intervenors' support for the narrow market definitions they adopt is
5 based on flawed applications of the *Merger Guidelines* and ignores the reality of
6 the marketplace in Washington and throughout the country.

7 *Third*, the fact that I did not explicitly perform a market definition test does not
8 mean, as the intervenors incorrectly claim, that my market definition is
9 inconsistent with such a test; nor does it mean that I failed to follow the *Merger*
10 *Guidelines*. I presented data sufficient to show that intermodal alternatives belong
11 in the mass market for Washington:

- 12 • Wireline access lines have been declining as wireless and
13 broadband alternatives have been on the rise. For example, in
14 Washington, FCC data show that mass market access lines (CLEC
15 plus ILEC) have dropped by 8 percent from the end of 2001 to the
16 end of 2004, whereas wireless subscribers have grown by 40
17 percent and mass market broadband lines have grown by 188
18 percent in that same period.¹

- 19 • These disparate trends have brought Washington to the point
20 where the number of wireless subscribers and residential and small
21 business broadband lines exceed the number of residential and
22 small business ILEC plus CLEC lines by almost 2 million lines (or
23 40 percent).²

¹ See FCC, Industry Analysis and Technology Division, Wireline Competition Bureau, "Trends in Telephone Service," June 21, 2005, Table 10.2 ; see also FCC, "High-Speed Services for Internet Access: Status as of December 31, 2004," July 7, 2005, Table 11.

² *Id.*

- 1 • Wireline usage has been declining as wireless usage has been
2 growing. Wireline interLATA access minutes declined over 8
3 percent per year, on average, from 2000 to 2003.³ Wireless
4 minutes-of-use increased 49 percent per year, on average, from
5 2000 to 2003.⁴

6 The fact that a formal market definition test is not required here is perhaps best
7 demonstrated by the fact that not one of the intervenors performed such a test
8 themselves. Mr. Wood (at 6) refers to “rigorous economic analyses” and (at 9) to
9 “market-specific and fact-intensive analysis” when describing what he views as a
10 proper merger review. Curiously, however, Mr. Wood is not “walking the talk,”
11 as he offers no empirical analysis whatsoever in his review of the competitive
12 impact of the merger. Similarly, Dr. Roycroft provides hardly any evidence in his
13 testimony on this issue, and the evidence he presents is flawed and inconsistent
14 with economic principles.

15 **Q. HOW DO YOU RESPOND TO THE CLAIMS THAT YOU FAILED TO**
16 **CONDUCT A FORMAL IMPACT ANALYSIS USING THE HHI?**

17 A. I followed the *Merger Guidelines* but did not perform an HHI calculation for four
18 reasons. *First*, it is crucial to emphasize that the *Merger Guidelines* require a
19 forward-looking analysis and that such an analysis shows that MCI is managing
20 the decline of its mass market business, is not now, and would not in the future be
21 a meaningful competitor that constrains Verizon’s prices in the relevant mass

³ *Id.*

⁴ See CTIA, “CTIA-The Wireless Association’s Semi-annual Wireless Industry Survey Results
December 1985–December 2004,” March 14, 2005, p. 8
<<http://files.ctia.org/pdf/CTIAYearend2004Survey.pdf>> (September 15, 2005).

1 market. Accordingly, MCI’s forward-looking share—the incremental impact of
2 the merger—is near zero and no HHI calculation is required to conclude the
3 transaction will not harm competition for mass market customers.

4 *Second*, given the dynamics transforming the industry, HHI calculations based on
5 past or even current market shares (such as the ones performed by Mr. Wilson and
6 Dr. Roycroft) are not appropriate for this transaction. They are misleading
7 because the question of whether a transaction will injure competition is
8 necessarily predictive and *forward-looking*.⁵ Indeed, Dr. Roycroft (at 70) quotes a
9 passage from the *Merger Guidelines*, which begins: “Market shares will be
10 calculated using the best indicator of firm’s future competitive significance.”

11 Yet he disregards this key aspect of the passage he quotes. Thus, reliance on
12 historical or even current data understates the competitive significance of some
13 providers and overstates the competitive significance of others. This
14 consideration was deemed particularly important by the California state Attorney
15 General, who has issued a formal opinion recommending approval of the
16 Verizon/MCI transaction and who observed that “The HHI is relatively useful, for
17 example, in assessing mergers in static, dominant-firm industries [but] is less
18 useful in predicting effects in regulated or highly dynamic industries or in mergers

⁵ Specifically, the *Merger Guidelines* (at 2) state: “Moreover, information is often incomplete and the picture of competitive conditions that develops from historical evidence may provide an incomplete answer to the *forward-looking* inquiry of the Guidelines. Therefore, the Agency will apply the standards of the Guidelines reasonably and flexibly to the particular facts and circumstances of each proposed merger.” [Emphasis added.]

1 between firms supplying differentiated products.”⁶ More specifically, there is
2 strong evidence that intermodal services have been acting, and will continue to
3 act, as substitutes for wireline services. Thus, to the extent an HHI is appropriate,
4 the correct forward-looking application of the *Merger Guidelines*’ test would not
5 yield results as high as those that Dr. Roycroft and Mr. Wilson present.

6 *Third*, although HHI calculations are sometimes used by the DOJ or the FTC in
7 merger reviews, they carry nowhere near the weight that the intervenors suggest.
8 HHIs can be useful as screens to determine whether a merger merits further
9 investigation. However, they should not be seen as an end in themselves, and, at
10 times, they can be highly misleading indicators of market power. Indeed, there
11 are cases in which HHIs played no role in the evaluation of a merger.⁷ Moreover,
12 it is well known that a number of mergers with HHIs significantly above the
13 thresholds in the *Merger Guidelines* have not been blocked by the antitrust
14 authorities.⁸ For instance, when Cingular and AT&T Wireless merged, the DOJ

⁶ In the Matter of the Joint Application of Verizon Communications Inc. (“Verizon”) and MCI, Inc. (“MCI”) to Transfer Control of MCI’s California Utility Subsidiaries to Verizon, Which Will Occur Indirectly as a Result of Verizon’s Acquisition of MCI before the Public Utilities Commission of the State of California, Application No. 05-04-020, “Opinion of the Attorney General on Competitive Effects of Proposed Merger of Verizon Communications, Inc. and MCI, Inc.,” issued September 16, 2005, p. 11.

⁷ The FTC and the DOJ note that “in a relative handful of cases, the Agencies never determined both the market shares of the merging firms and the level of market concentration.” FTC/DOJ, “Merger Challenges Data: Fiscal Years 1999-2003,” December 18, 2003, p. 3.

⁸ See FTC/DOJ, “Merger Challenges Data: Fiscal Years 1999-2003,” December 18, 2003. Referencing the *Merger Guidelines*, the report (at 2) notes that “market shares and concentration data provide only the starting point analyzing the competitive impact of a merger.” See also, Malcolm B. Coate, “Economic Models in Merger Analysis: A Case Study of the Merger Guidelines,” Potomac Working Paper in Law and Economics 05-04, May 2005, Table 3-b. According to Coate, in collusion cases, 9 (of 18) mergers with HHI’s from 2400-2999 AND deltas from 200-499 were closed. For HHI’s over 3000 and deltas over 500, 6 of 21 were closed (i.e., the FTC took no action to challenge the transaction).

1 sought remedies only with respect to a handful of the 450 Component Economic
2 Areas and Cellular Market Areas in which strict application of the HHI thresholds
3 identified suggested that the merger warranted further scrutiny.⁹ And those few
4 areas had post-merger HHIs that “range[d] from approximately 4400 to more than
5 8000, with increases in the HHI as a result of the merger ranging from
6 approximately 1100 to more than 3500.”¹⁰ The HHI calculations done by the
7 intervenors all fall within the range of HHIs that the DOJ has calculated in other
8 mergers that it has approved.

9 *Fourth*, a more practical, but nonetheless serious concern is the fact that it is
10 virtually impossible to obtain accurate market-share information concerning each
11 of the many communications services providers serving mass market customers
12 today (e.g., wireless providers, Internet and broadband providers, and VoIP
13 providers). In fact, as I discuss in detail later, Mr. Wilson (at 4–5) fully admits
14 that while “intermodal offerings of analog and digital services via wire and
15 non-wireline transmission technologies are often presented as competitive
16 alternatives in part or in whole to what Verizon currently offers in the relevant

⁹ See *United States v. Cingular Wireless Corp.*, No. 04-CV-1850 (D.D.C. Nov. 3, 2004) Final Judgment, pp. 3–7; see also Applications of AT&T Wireless Services, Inc. and Cingular Wireless Corp., For Consent to Transfer Control of Licenses and Authorizations, Memorandum Opinion and Order, 19 FCC Rcd 21522 (2004) ¶¶ 104, 110 (“AT&T Wireless-Cingular Order”). The FCC similarly found that remedies should be imposed with respect to very few of the markets identified through HHI calculations as warranting further investigation. See *id.* ¶ 184 (“we have concluded that, as a general matter, even the markets identified for further review by our preliminary HHI and spectrum analysis are unlikely to suffer anticompetitive effects as a result of the merger.”). In the few instances in which the FCC did impose remedies, it did so only after an extensive and detailed analysis. See *id.* ¶¶ 193–200 and Appendix D.

¹⁰ Competitive Impact Statement, p. 11, *United States v. Cingular Wireless Corp.*, No. 04-CV-1850 (D.D.C. filed Oct. 29, 2004).

1 market,” his analysis of the transaction’s effect on competition did not account for
2 any of these “intermodal offerings” simply because Mr. Wilson was unable to
3 obtain market share data pertaining to these other competitors. Rather than
4 abandoning his effort to calculate an HHI in light his inability to obtain all of the
5 necessary data, he omitted all intermodal competition from his review and in so
6 doing overstated the HHIs.

7 The difficulty of gathering complete and reliable market share data virtually
8 forecloses the possibility of performing a reliable HHI calculation. Thus, there is
9 little reason even to attempt to calculate HHIs, when any such calculation would
10 have little if any chance of producing a meaningful assessment of this transaction.

11 **Q. WHAT DO THE INTERVENORS CLAIM REGARDING THE**
12 **TRANSACTION’S EFFECT ON COMPETITION FOR MASS MARKET**
13 **CUSTOMERS?**

14 A. Mr. Wilson’s conclusion regarding the transaction’s effect on competition for
15 mass market customers is unclear. Although he (at 14) concludes that the market
16 for residential local exchange service is already highly concentrated in the areas
17 where Verizon operates, he does not perform any post-merger concentration
18 analysis in this “market” and offers no conclusions about how, in his view, this
19 merger will affect competition.

20 Dr. Roycroft (at 4) claims that the transaction will lead to a “significant decrease
21 in competitive activity in Verizon’s Washington service area following the

1 merger,” which will “extend to mass market consumers in Qwest’s service area.”
2 Dr. Roycroft (at 76) further claims: “the merger will result in an increase in
3 Verizon’s market power especially in the residential market.” He (at 81)
4 concludes that “[t]here is substantial evidence that the merger will result in
5 competitive harm, and there is no evidence that any countervailing influences to
6 the merger harms will be emerging in Washington.”

7 **Q. DO YOU AGREE WITH THE INTERVENORS’ CONCLUSIONS?**

8 A. No. The intervenors’ competitive analyses are fundamentally flawed because:
9 (1) they fail adequately to account for the fact that MCI does not now and would
10 not in the future constrain Verizon’s prices; (2) they begin with overly narrow
11 definitions of the geographic and the service market; and, in particular, they
12 ignore all forms of intermodal competition which as a matter of economics and
13 business realities, should be included in the relevant market; and (3) they place
14 undue reliance on flawed HHI calculations.

15 **A. The Intervenors Overstate MCI’s Competitive Significance**

16 **Q. PLEASE EXPLAIN HOW INTERVENORS FAILED TO ASSESS THE**
17 **SIGNIFICANCE OF MCI AS A COMPETITOR FOR MASS MARKET**
18 **CUSTOMERS.**

19 A. Mr. Wilson, Mr. Wood, and Dr. Roycroft all fail to consider the fact that MCI
20 does not now, and would not in the future be capable of constraining Verizon’s
21 prices. Currently, MCI provides local and integrated local/long distance service

1 in Verizon's service territory through a commercial agreement to resell Verizon's
2 UNE-Ps.¹¹ But, MCI is now a less important competitive force because, as Mr.
3 Beach explains, MCI made a business decision before it agreed to merge with
4 Verizon to "manage the decline" of its mass market business and to focus instead
5 on its enterprise business (where Verizon is not a formidable competitor). As part
6 of its plan to manage the decline, MCI has been increasing its prices by adding
7 new fees and charges. Since September 2004 (before any increase in wholesale
8 costs), MCI has increased the total price paid by consumers for MCI's
9 Neighborhood Unlimited by \$4.02 per month, on average, in the Verizon region.¹²
10 Price increases are likely to continue because the agreements MCI has negotiated
11 with Verizon and other incumbents provide for periodic wholesale rate increases.
12 MCI's commercial agreement with Verizon affects this increase through a
13 monthly per-line surcharge to be added to former UNE-P rates.

14 MCI's prices are already above the prices charged by intermodal competitors.
15 MCI's unlimited all-distance product in Washington excluding fees and
16 surcharges is priced at \$49.99 in the former GTE's zones 1-4 and \$54.99 in
17 former GTE's zone 5. (Its price is about \$11 higher on average in Washington
18 when fees and surcharges are included.) For the same unlimited all-distance

¹¹ The Verizon/MCI commercial agreement was negotiated after the elimination of UNE-P in the FCC's TRRO decision.

¹² In particular, in September 2004, MCI increased the Carrier Cost Recovery Charge for stand-alone long-distance service to \$0.85. In 2005, with the FCC's TRRO Order, MCI increased rates by \$1.90 per month nationally, including in Washington. Beach Direct Testimony, pp. 17-18.

1 product, Comcast charges \$39.95. T-Mobile charges \$39.99 for a wireless plan
2 that includes 600 “whenever” minutes and unlimited nights and weekends.
3 Vonage charges \$24.99 for its unlimited all-distance VoIP service. Other VoIP
4 services such as those offered by BroadVoice and Packet 8 are even less.¹³ Even
5 when the price of a broadband line is added to the price of VoIP, the price is still
6 competitive with MCI’s price, which, of course, does not include any broadband
7 at all. The same divergence exists in markets across the nation.¹⁴

8 **Q. HOW HAVE THESE DEVELOPMENTS AND INTERMODAL**
9 **COMPETITION AFFECTED MCI?**

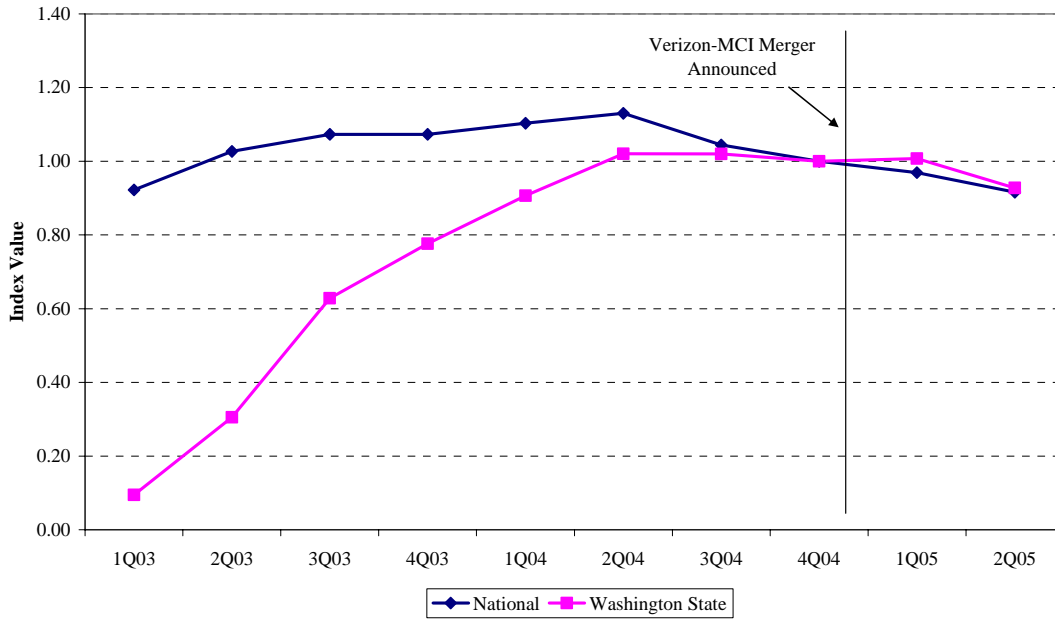
10 A. As a result of these developments and intermodal competition, MCI’s revenues,
11 lines, and mass market customer base have been shrinking. Figure 1 summarizes
12 how MCI’s residential lines have been declining in Washington and nationally
13 since the merger was announced.

¹³ See BroadVoice, Rate Plans <<http://www.broadvoice.com/rateplans.html>> (September 15, 2005).

¹⁴ See Opening FCC Application, Hassett et al. Declaration, Exhibit 2, pp. 2–50.

Figure 1

Indices of MCI Residential Lines In Washington State and All Major ILEC Territories



- 1 **Q. DR. ROYCROFT ASSUMES THAT MCI COULD HAVE ENTERED AND**
2 **DIRECTLY COMPETED IN THE VOIP MARKET. IS THAT A VALID**
3 **ASSUMPTION?**
- 4 A. No. As Mr. Beach explains, MCI could not have revived its mass market
5 business through a commercial VoIP offering, if MCI were ever to seek to expand
6 beyond its current limited market trial. MCI's mass market business had been
7 built in the past through reliance on telemarketing. If it were to compete for VoIP
8 customers against Vonage, Yahoo, and AOL who already command the attention
9 of hundreds of millions of potential customers, it would, at best, be a late entrant
10 that brings no unique advantages that would enable it to become a significant
11 market participant alongside these large, well-financed early entrants.

1 **Q. WHAT IS THE ECONOMIC SIGNIFICANCE OF MCI'S DECLINE**
2 **INSOFAR AS THIS TRANSACTION IS CONCERNED?**

3 A. From an economic perspective, the most significant consideration in any analysis
4 of whether this transaction will adversely affect prices is the fact that Verizon
5 does not set its mass market pricing in response to MCI, and MCI could not be
6 expected to constrain Verizon's pricing given the near certainty of future MCI
7 price increases. While the intervenors rely on HHI calculations to gauge whether
8 the transaction might adversely affect competition and thus affect prices for mass
9 market customers, these facts about MCI's current effect on Verizon's prices are
10 themselves sufficient to conclude that the transaction will not increase Verizon's
11 ability to raise prices after the transaction. Moreover, while those HHI
12 calculations are flawed in ways that I discuss later, when taken with the evidence
13 of MCI's mass market decline, they do not lead to a conclusion that the
14 transaction will harm competition for mass market customers.

15 **B. The Intervenors' Definitions of the Relevant Market Are Incorrect**

16 **Q. HOW DO THE INTERVENORS DEFINE THE RELEVANT MARKET**
17 **WHEN ANALYZING THE COMPETITIVE EFFECTS OF THIS**
18 **TRANSACTION?**

19 A. Mr. Wilson (at 2–3) defines the relevant (service) product market as “the market
20 for local exchange lines” and the relevant geographic market as “the wire centers
21 served by Verizon in Washington.”

1 Dr. Roycroft (at 69) defines the product market as the “market for local exchange
2 service, categorized by customer class.” He does not explicitly define a
3 geographic market but, by calculating HHIs using market shares of wireline
4 providers within Verizon’s service area in Washington, he implicitly defines the
5 geographic market as Verizon’s service area in Washington.

6 **Q. SHOULD THE COMMISSION ADOPT ANY OF THESE DEFINITIONS**
7 **FOR ITS OWN ANALYSIS OF THE TRANSACTION?**

8 A. No. These definitions of the relevant geographic and product markets are overly
9 narrow. Economists view a market as the set of offerings with which the service
10 in question competes (i.e., the services that consumers would substitute if the
11 price of the service in question were increased). The intervenors’ definitions of
12 relevant geographic and product markets do not account for how communications
13 services are currently bought and sold; for example, they ignore the widespread
14 availability of all-distance services from numerous providers that are now
15 available and will remain available after the transaction.

16 **1. The Intervenors’ Definitions of the Relevant *Geographic***
17 **Market Are Overly Narrow**

18 **Q. WHY ARE MR. WILSON’S AND DR. ROYCROFT’S PROPOSED**
19 **DEFINITIONS OF THE RELEVANT GEOGRAPHIC MARKET TOO**
20 **NARROW?**

21 A. In confining the market to Verizon’s service area in Washington, or even more
22 narrowly to individual Verizon wire centers within that area, these witnesses fail
23 to account for the fact that communications services providers, particularly

1 intermodal competitors, are national in scope. As traditional regional companies
2 like Verizon add VoIP services, they become national providers as well.
3 Although wireless providers, including Cingular, Sprint/Nextel, and T-Mobile,
4 have slightly different geographic coverage, they too compete nationally.
5 Moreover, any customer with a broadband connection can purchase VoIP services
6 from a number of competitors, including Vonage, Packet8, Lingo, and AT&T,
7 and such services have no inherent geographic location. Although individual
8 cable companies operate regionally, their cable networks span close to the entire
9 country and already are being used to offer consumer bundled local and long
10 distance voice services. Accordingly, whatever the precise contours of the
11 geographic market, consumers are served by a number of national providers,
12 many of whom can serve them in Verizon Washington's service area in response
13 to an effort by Verizon to raise prices in that area. This suggests that the market is
14 more properly defined as a national market. In the final analysis, however, the
15 definition of the geographic market is of little, if any, significance because:
16 (1) competitive forces are sufficiently widespread, and (2) MCI's and Verizon's
17 relative positions are sufficiently similar throughout the nation and the state of
18 Washington.

1 2. **The Intervenors' Definitions of the Relevant *Product* Market**
2 **Are Overly Narrow**

3 **Q. WHY IS MR. WILSON'S DEFINITION OF THE RELEVANT PRODUCT**
4 **MARKET TOO NARROW?**

5 A. Mr. Wilson (at 4) starts out with the right analysis, stating that “current theoretical
6 discussion and case study of the communications sector, with attention to the role
7 of regulation when competition exists, indicates that non-traditional,
8 cross-industry, technology-neutral analysis based on functionality of the relevant
9 market may be appropriate.” Mr. Wilson (at 4–5) even acknowledges that
10 “[m]uch more activity is occurring in the relevant market than appears under
11 direct Commission oversight. For example, intermodal offerings of analog and
12 digital services via wire and nonwireline transmission technologies are often
13 presented as competitive alternatives in part or in whole to what Verizon currently
14 offers in the relevant market.” However, when he (at 5) finds that information on
15 all these intermodal competitors is not readily available, he drops all such
16 competition from his analysis and defines the relevant product market to include
17 only “local exchange lines (residential and business local exchange service).” Mr.
18 Wilson (at 5) admits that his analysis “represents only a sub-set of all the choices
19 facing consumers in the relevant market, and it does not include facilities-based or
20 intermodal competition.”

21 Mr. Wilson's definition is in fact, too narrow. By defining the product market
22 with reference to local exchange service only, Mr. Wilson makes at least two

1 errors. *First*, given that communications services are most frequently bought and
2 sold as bundles of all-distance services today, there is no longer an economically
3 meaningful distinction between local and long distance services such that it is
4 improper to define the product market by reference to a single product such as
5 local service. *Second*, as Mr. Wilson himself recognizes, communication services
6 are no longer limited to those made on the local exchange company’s “wireline”
7 network, and consumers now communicate using services offered by a vast array
8 of providers that use various technologies to enable those communications. These
9 providers should be included with traditional wireline carriers in any analysis of
10 the transaction’s effect on competition.

11 **Q. IS THERE MARKET EVIDENCE INDICATING THAT LOCAL**
12 **EXCHANGE SERVICE IS NO LONGER A STAND-ALONE SERVICE?**

13 A. Yes. I described this in detail in my Direct Testimony (at 45–47). To further
14 understand why there is no longer a stand-alone local service market, consider
15 wireless services, which are near-uniformly provided on an all-distance basis.
16 This results in even stronger competition for wireline services when consumers
17 make decisions on whether to add or drop lines, how many minutes to buy in
18 different flat-rate plans, how many metered minutes to buy, and so on.

19 The movement to all-distance product offerings accelerated when wireless
20 providers erased the distance distinction by offering consumers large quantities of
21 minutes that they could use to call anywhere in the country for the same price.

1 The effect was to induce wireless subscribers to use wireless devices for long
2 distance, which, in turn, reduced demand for wireline long distance services. As
3 consumers became more accustomed to all-distance services, they became
4 increasingly intolerant of extra charges for long distance calls from wireline
5 providers. For this and other reasons, long distance minutes in particular shifted
6 dramatically toward wireless.

7 In a similar vein, consider cable companies and VoIP providers. Much the same
8 as wireless providers, these carriers typically do not distinguish between local
9 calls and long distance calls. Instead, they offer consumers all-distance bundles.
10 Cable companies and VoIP providers routinely offer telephone service as part of
11 all-distance plans.

12 Because providers of every telephony technology offer services that no longer
13 distinguish between local and long distance calls and because consumers
14 increasingly purchase a wide range of all-distance services, formerly separate
15 local and long distance communications markets have converged. There is no
16 reason to believe that a hypothetical monopolist of only local or long distance
17 service could profitably exercise market power without also controlling
18 all-distance offerings. In addition, there is no economic or factual reason to limit
19 the definition of the relevant product market to “local” service.

1 **Q. ARE MR. WILSON’S ESTIMATES OF MARKET POWER**
2 **CONSERVATIVE?**

3 A. No. Mr. Wilson (at 9) states that his “estimates of Verizon market power in the
4 relevant market are conservative, because [he does] not have the ability to include
5 intermodal and facilities-based competition data in this case.” In fact, however,
6 his estimates based on current market shares likely *overstate* Verizon’s market
7 power for two reasons. *First*, given that telephone regulation historically gave
8 ILECs exclusive franchises, and to this day distorts pricing by requiring below
9 competitive market prices for basic services. One of the effects of such regulation
10 is that market entry is less desirable. Wireline shares of the incumbent reflect this
11 effect and do not provide any meaningful indication of market power. *Second*,
12 more fundamentally and contrary to what Mr. Wilson says, his estimates of
13 Verizon’s market power are overstated because Mr. Wilson incorrectly excluded
14 intermodal competition from his analysis.

15 **Q. PLEASE EXPLAIN WHY DR. ROYCROFT’S DEFINITION OF THE**
16 **RELEVANT PRODUCT MARKET IS TOO NARROW.**

17 A. In determining the relevant product market, Dr. Roycroft fails to perform an
18 appropriate analysis. Rather than assessing whether consumers will turn to
19 competitive alternatives should the post-merged entity attempt to raise prices in
20 an anticompetitive way, Dr. Roycroft discusses how intermodal services differ
21 from wireline services such that, in his view, consumers would not use them as
22 alternatives today. From an economics perspective, however, a service does not

1 have to be identical in all aspects for customers to treat them as substitutes.
2 Regardless of the differences Dr. Roycroft lists between wireline and various
3 intermodal services, the existence of such differences does not refute the findings
4 I set forth in my Direct Testimony, that wireless, VoIP, cable, and other
5 intermodal services are all economic substitutes for wireline services and, based
6 on their behavior, consumers view them as such. Like the other two witnesses,
7 Dr. Roycroft also does not offer any evidence countering these findings of strong
8 intermodal competition in Washington.

9 **Q. ARE THE METHODS THAT MR. WOOD AND DR. ROYCROFT USED**
10 **TO DEFINE THE RELEVANT PRODUCT MARKET CONSISTENT**
11 **WITH THE *MERGER GUIDELINES*?**

12 A. No. Mr. Wood discusses the “hypothetical monopolist test” as his basis for
13 defining the relevant product market. He (at 11) states:

14 Pursuant to the Merger Guidelines, product or service markets are
15 defined by the likely pricing behavior of a hypothetical entity that
16 has a monopoly in that product market. The test is whether the
17 hypothetical monopolist would be able to impose a relevant price
18 increase (as defined below) for the products in the market. If the
19 monopolist could profitably impose a price increase on a single
20 product, then possible substitute products are by definition not
21 sufficient to constrain prices and are not in the same relevant
22 market.

23 However, Mr. Wood never conducted the test he advocates. In fact, the market
24 evidence discussed in my Direct Testimony shows that—using this very test—
25 voice-grade customers do not constitute a separate economic market. Dr.
26 Roycroft (at 73) eliminates wireless from the relevant market in part because “the

1 limited data available indicates very little wireless substitution.” Of course, if
2 such factors eliminate wireless from the relevant market, the same is true of
3 MCI’s local and bundled services because, based on the intervenors’ data, MCI
4 has an even smaller share of local lines in Verizon Washington’s than have likely
5 substituted wireless for wireline service.¹⁵ Thus, the analyses conducted by these
6 witnesses are not only seriously flawed, but also inconsistent with the *Merger*
7 *Guidelines*.

8 **a. The intervenors improperly discount the significance of the**
9 **vigorous cable competition in Washington.**

10 **Q. SHOULD CABLE COMPANIES BE INCLUDED IN THE RELEVANT**
11 **MARKET?**

12 A. Yes. In my Direct Testimony (at 65), I presented evidence showing that
13 95 percent of the 2.2 million homes passed by cable systems in Washington have
14 broadband service (i.e., cable modems) available, and 50 percent of homes passed
15 will have telephony available by the end of the year. All of the approximately
16 500,000 customers in Washington that have broadband over cable already can
17 substitute ILEC services with VoIP.¹⁶ The voice telephony offerings of cable
18 providers already have led to price competition, and such price competition is
19 expected to continue and accelerate. As one analyst observed, “the Bells appear
20 to be responding to the VoIP threat with price cuts” on their calling plans as cable

¹⁵ Similarly, he dismisses VoIP because he believes consumers are not “using stand-alone VoIP services, to any meaningful extent as substitutes for local exchange service....”

¹⁶ See FCC High Speed Services for Internet Access: Status as of December 31, 2004, Table 7.

1 companies have begun to achieve significant market share in part due to their
2 “aggressive pricing.”¹⁷ Accordingly, cable companies should be considered part
3 of the relevant market to be analyzed here.

4 **Q. DOES MR. WILSON CONSIDER CABLE COMPETITORS IN HIS**
5 **ANALYSES OF THE TRANSACTION’S EFFECT ON MASS MARKET**
6 **COMPETITION?**

7 A. No. Although he acknowledges the importance of intermodal competition,
8 Mr. Wilson completely ignores it in his analysis.

9 **Q. DOES DR. ROYCROFT PROPERLY INCLUDE CABLE COMPETITORS**
10 **IN HIS ANALYSES OF THE TRANSACTION’S EFFECT ON MASS**
11 **MARKET COMPETITION?**

12 A. No. Dr. Roycroft (at 72) includes the cable companies’ provision of VoIP service
13 in his HHI calculations “[i]f a cable TV provider is using VoIP, and provides
14 E911 service to their customers.” However, his analysis of cable telephony like
15 his HHI analysis in general does not adequately consider cable because he takes a
16 backward looking approach that ignores the likely and imminent growth of cable
17 telephony. For example he (at 38) claims, that “cable CLEC activity has been
18 negligible in Verizon’s Washington service area” and suggests that it is “less than
19 clear” whether these firms will be offering telephony service to all customers. He
20 also claims that the services offered by cable CLECs “are not always comparable

¹⁷ See J. Halpern, et al., Bernstein Research Call, Quarterly VoIP Monitor: The “Real” Price Gap for VoIP Driving Rapid Subscriber Growth, July 15, 2005, p. 5.

1 to basic telephone service,” citing the possibility of power outages resulting in a
2 disruption of cable provided digital telephony.

3 **Q. DO YOU AGREE WITH DR. ROYCROFT’S ASSESSMENT OF CABLE**
4 **COMPETITION?**

5 A. No. In focusing solely on the number of customers that are actually receiving
6 voice service from cable companies today, Dr. Roycroft fails to consider that
7 Verizon’s customers are able to switch to cable telephony at any time in the event
8 Verizon tries to raise its prices above competitive levels.

9 As for the differences in service characteristics that Dr. Roycroft cites, these
10 differences have evidently not been a deterrent to the growing number of
11 customers who are switching to cable-provided voice service. More important,
12 even if these differences would prevent some customers from switching to a cable
13 company’s voice service, it matters only that a significant number of customers
14 would switch if Verizon increased prices above a competitive market level. The
15 evidence shows that a significant number of customers would likely switch,
16 therefore cable companies should be regarded as imposing pricing constraints on
17 Verizon.

1 **b. The intervenors take no account of broadband and Internet**
2 **competition.**

3 **Q. SHOULD BROADBAND AND INTERNET SERVICES BE INCLUDED IN**
4 **THE RELEVANT MARKET?**

5 A. Yes. As I explained in my Direct Testimony (at 25–29), broadband services
6 compete with wireline local exchange services in important ways. DSL and cable
7 modem services are used as substitutes for dial-up Internet access (which is
8 typically obtained through the use of a second phone line) or other data services.
9 Moreover, they can be used with VoIP, making them platforms that can compete
10 for voice calls. Furthermore, Internet communications also compete with wireline
11 local exchange services. Email and instant messaging (“IM”) are undoubtedly
12 substituting for a substantial amount of voice traffic that would have otherwise
13 gone over the traditional phone network.

14 **Q. DO THE INTERVENORS CONSIDER THE PRICE-CONSTRAINING**
15 **EFFECTS OF INTERNET AND BROADBAND SERVICES?**

16 A. No. Mr. Wilson dismisses it for reasons I just discussed. Dr. Roycroft (at 63)
17 speculates that, with the FCC’s extension of the Supreme Court’s *Brand X*
18 decision (establishing that cable companies need not unbundle their networks for
19 ISPs) to LEC broadband facilities, customer choices for Internet services might be
20 limited and VoIP offerings associated with those ISPs would be constrained as
21 well. However, where there is sufficient competition for broadband access
22 services at the retail level, the degree of *wholesale* competition is irrelevant to
23 consumer welfare. As the FCC observed, it is a mistake to “equate the ability of

1 **Q. WHAT PROOF DO YOU HAVE THAT CUSTOMERS CONSIDER**
2 **WIRELESS SERVICE AN ALTERNATIVE TO WIRELINE SERVICE?**

3 A. The substantial evidence of growth in wireless subscriptions and usage presented
4 in my Direct Testimony and in this testimony show that consumers already view
5 wireless as a competitive alternative to wireline regardless of the differences.
6 That evidence also implies that an economically significant number of customers
7 would move to wireless service in the event of an increase in the price of wireline
8 service.

9 In addition to this marketplace evidence, recent econometric research shows that
10 wireless services are in fact substitutes rather than complementary services. For
11 instance, some find that there is “conclusive evidence that wireless and wireline
12 services are substitutes” and that “there appears to be statistically significant
13 evidence that wireless competition prevents wireline prices from rising
14 excessively.”¹⁹ Similarly, based on a survey conducted in the U.K., others have
15 found that there is “strong evidence for call-level substitution between fixed and
16 mobile telephony.”²⁰ Moreover, some have found that “while earlier results
17 suggest complementarity, subsequent research reports a “substitution effect” and
18 finds, in particular, that there exists a “significant substitution effect” between

¹⁹ See, e.g., Stephen B. Pociask, “Wireless Substitution and Competition, Different Technology but Similar Service—Redefining the Role of Telecommunications Regulation,” Competitive Enterprise Institute, December 15, 2004, p. 1.

²⁰ Reka Horvath and Dan Maldoom, “Fixed-mobile substitution: a simultaneous equation model with quality and limited dependent variables,” DotEcon Discussion Paper, August 2002, p. 21.

1 wireline and wireless services.²¹ Although others still believe that “mobile
2 service is a moderate substitute for fixed-line access, evolving usage patterns
3 suggest that mobile and fixed service will become greater substitutes over time.”²²
4 There are a number of additional studies using U.S. and international data, all
5 suggesting similar results—wireless services are replacing wireline services. A
6 study of the Canadian local phone services market finds that “the wireline local
7 access market is entering a more vigorous phase of competition,” and “traditional
8 assumptions on local phone service market dynamics will no longer be
9 relevant.”²³

10 The authors of this last report on Canadian phone services add:

11 The incumbent telephone companies are threatened in a way that
12 they have yet to experience in their more than 100-year history.
13 Market forces, such as the arrival of voice over Internet Protocol
14 (VoIP), as well as wireless and other technological substitutions to
15 traditional voice services, will change the face of the Canadian
16 wireline local access market in telecommunications. In addition,
17 the entry of multiple players in the voice business will further
18 accelerate this competitive shift.²⁴

19 Finally, a study on cross-sectional and time-series data from published FCC and
20 other governmental sources at the state level finds that:

²¹ Gary Madden and Grant Coble-Neal, “Economic Determinants Of Global Mobile Telephony Growth,” *Information Economics and Policy* 16, May 15, 2003, p. 531.

²² Mark Rodini, Michael R. Ward, and Glenn A. Woroch, “Going mobile: substitutability between fixed and mobile access,” *Telecommunications Policy* 27, 2003, p. 475.

²³ Michael Sone, “Canadian Local Telecom Services Market study,” released November 18, 2004, cited in *Antitrust & Trade Regulation Report*, Vol. 87, No. 2182, p. 561.

²⁴ *Id.*, p. 561.

1 There is substantial competition between ILECs and CLECs and
2 that wireless and high-speed services adversely affect ILEC lines.
3 We conclude that the local market definition should be expanded
4 for purpose of deregulation.²⁵

5 Curiously, Dr. Roycroft cited the same study in his testimony (at 45) for the
6 proposition that wireless and wireline phones are more complements than
7 substitutes, and thus do not belong in the same relevant market. Dr. Roycroft is
8 wrong, as the very same paper concludes:

9 The finding that intermodal competition is significant in the
10 communications market, and that local competition is enhanced by
11 it, suggests that regulatory policies ought to account for these
12 effects—perhaps without regard to CLEC line share. Otherwise,
13 ILECs will be overly constrained in responding to market
14 competition in the core wireline market.²⁶

15 Note also that Dr. Roycroft points out (at 44) that the study was based on data
16 from 1999 to 2002; thus, given the rapid progress of wireless with better quality,
17 lower prices and greater consumer use since the end of 2002, I would expect that
18 a similar model based on more recent data would show even stronger substitution.
19 This can be seen graphically in the Figure 2 below.

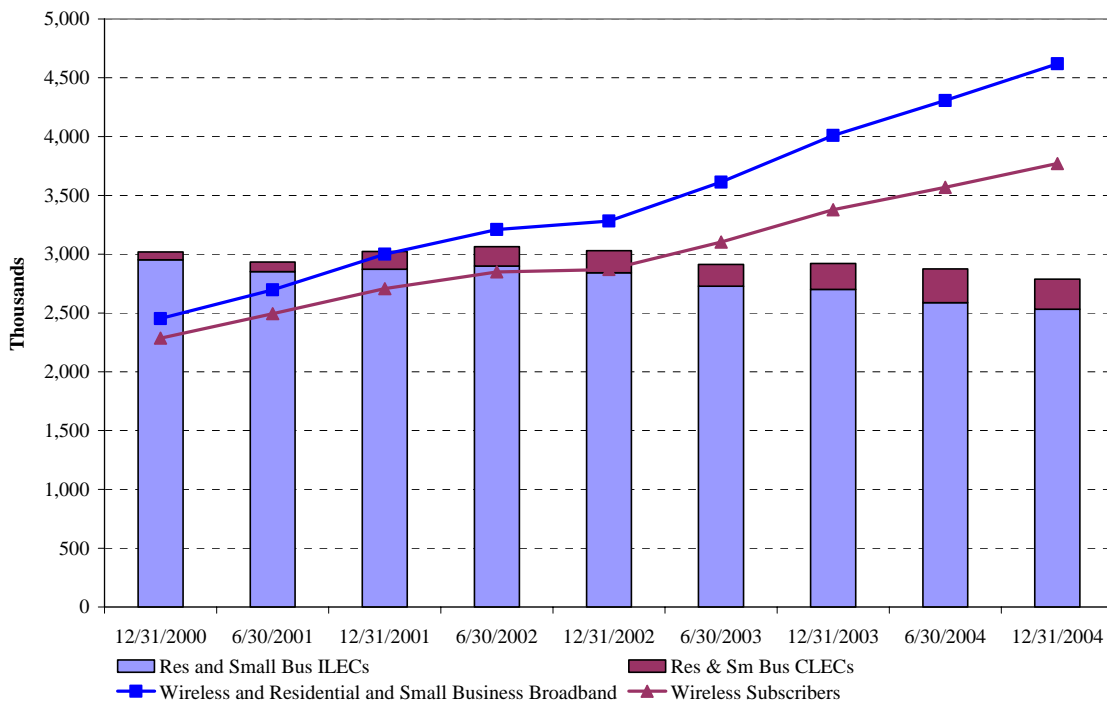
²⁵ David G. Loomis and Christopher M. Swann, “Intermodal Competition in Local Telecommunications Markets,” *Information Economics and Policy* 17, 2005, p. 97.

²⁶ *Id.*, p. 111.

1 Q. DO YOU HAVE SPECIFIC EVIDENCE SHOWING THAT WIRELESS
2 SERVICES ARE COMPETITIVE ALTERNATIVES TO WIRELINE
3 SERVICES?

4 A. Yes. As seen in Figure 2, residence and small business wirelines have decreased,
5 while wireless (and broadband) lines have been growing in Washington.

Figure 2
Residential and Small Business Wireless and Broadband Lines Have Increased
and Residential and Small Business Wirelines Have Decreased in WA



Source: FCC Local Competition Reports and High Speed Services for Internet Access Reports

6 At a time when demographic factors would ordinarily increase the demand for
7 telephone service in Washington, the pattern of declining wirelines access lines
8 shows that intermodal substitution has been occurring. Specifically, in 2000, the
9 Bureau of Census reported a housing unit growth rate of 1.5 percent for

1 Washington. For the same year, the FCC reported 3,054,277 ILEC and CLEC
2 residential and small business lines in the state. Assuming that these mass market
3 lines would have grown in proportion to the actual growth in the number of
4 housing units, which averaged about 1.5 percent per year, I estimate that there
5 would have been about 3,259,567 mass market lines by the end of 2004. The
6 actual number of lines, however, was only 2,787,373. This implies that about
7 472,000 lines, or 14.5 percent of all lines, were lost to intermodal competition.
8 Thus, as Table 1 and Figure 3 below illustrate, intermodal competition is strong in
9 *today's* market; and if the trend continues, it would be expected to grow even
10 stronger.

Table 1
Lines Lost to Intermodal Competition

	Housing Units Growth	Mass Market Wirelines	Mass Market Wirelines Forecast	ILEC Lines	CLEC Lines ²⁷	Lines Lost to Intermodal	Percent Lost to Intermodal
6/30/2000		3,054,277	3,054,277	2,993,440	60,836		
6/30/2001	1.48%	2,933,969	3,099,445	2,851,279	82,689	165,476	5.3%
6/30/2002	1.36%	3,063,395	3,141,749	2,843,195	165,109	78,354	2.5%
6/30/2003	1.48%	2,912,938	3,188,330	2,727,609	185,330	275,391	8.6%
6/30/2004	1.50%	2,874,778	3,236,017	2,588,040	286,738	361,239	11.2%
12/31/2004	0.73%	2,787,373	3,259,567	2,531,598	255,774	472,194	14.5%

Sources: 1) Housing units from U.S. Census

2) ILEC and CLEC lines from FCC local competition report

²⁷ CLEC residential and small business lines may include cable telephony.

- 1 Similarly, as seen in Figure 4, local calls and toll calls per Verizon wireline in
- 2 Washington have declined since 2000.

Figure 3

Estimated Mass Market Lines Lost to Intermodal Competition

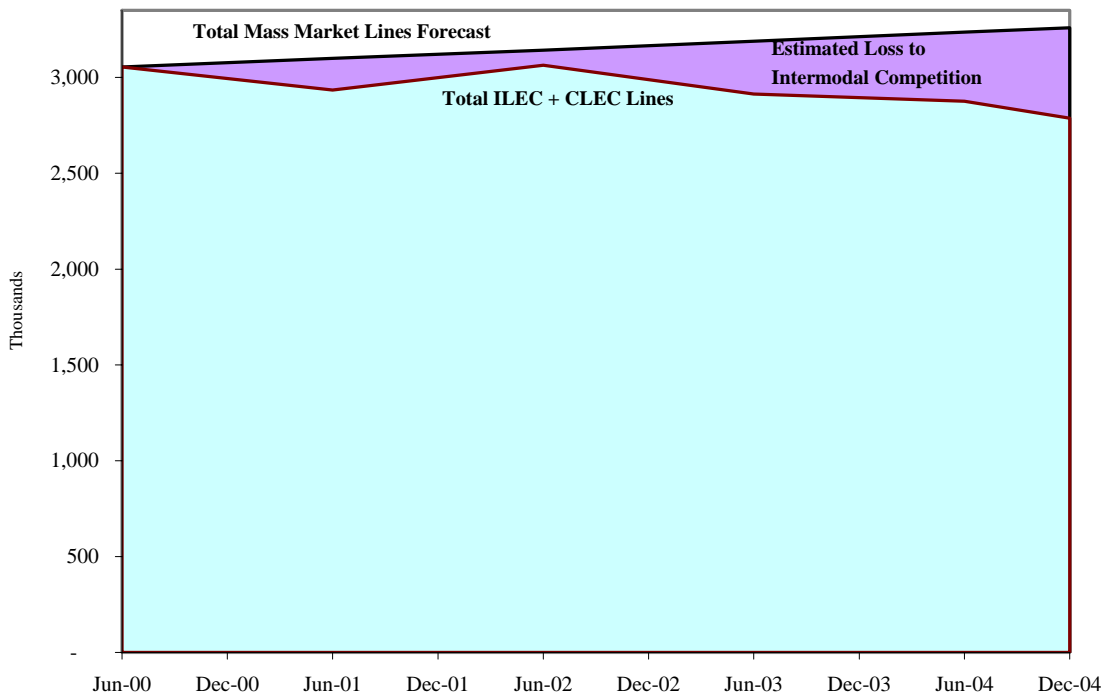
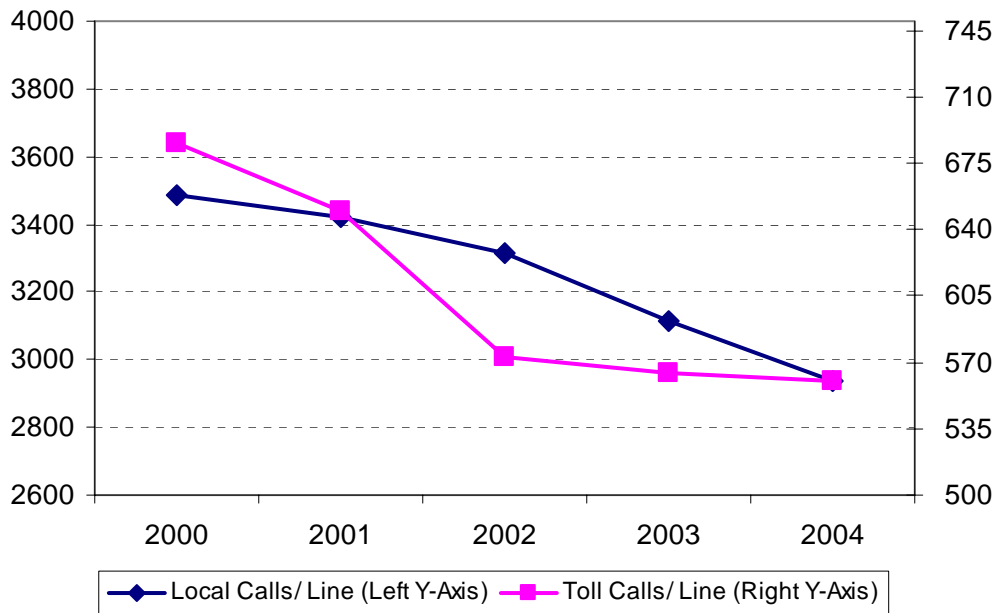
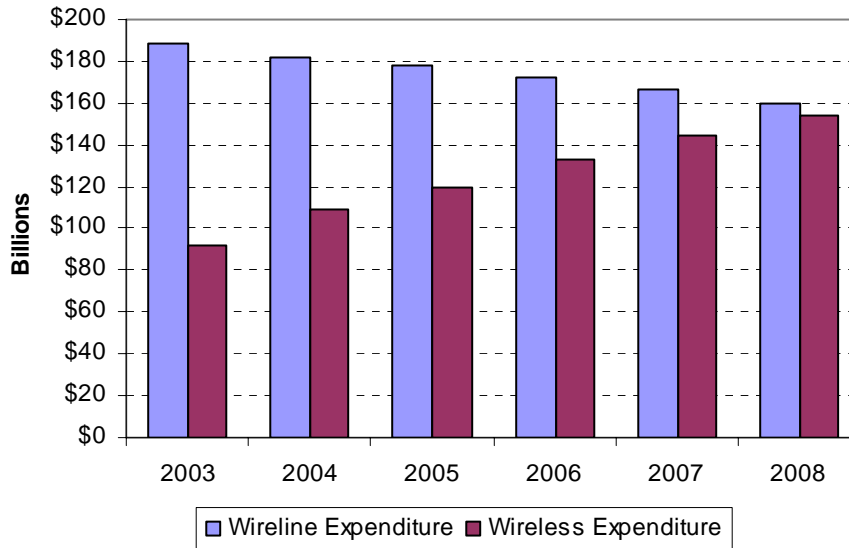


Figure 4
Calls Per Verizon Wireline Per Year in Washington



- 1 Finally, as shown in Figure 5, wireless expenditures by consumers have grown as
- 2 their expenditures on wireline services have declined and that trend is expected to
- 3 continue.

Figure 5
Wireline Expenditures Will Continue to Decline
While Wireless Expenditures Will Continue to Increase



Source: In-Stat/MDR. Wireline in Decline: US Wireline Services 2004. December 2004, Table 16.

- 1 **Q. DO YOU AGREE WITH DR. ROYCROFTS STATEMENT (AT 46) THAT**
 2 **MARKET EVIDENCE HAS NOT SHOWN THAT VOIP AS A**
 3 **COMPETITIVE FORCE?**
- 4 A. No. Dr. Roycroft cites (at 45-46) a Forrester Research report, which, according to
 5 him demonstrates that VoIP is “becoming more muted as consumers gain more
 6 experience with the prospects of wireless substitution.” While indicating that
 7 cord-cutting is not proceeding as quickly as Forrester Research had initially
 8 estimated, the report still found that intermodal competition will increased
 9 significantly. Specifically, the report found that cord-cutting “increased 20% in

1 2004, and for every current cord-cutter, there are two more mobile users who plan
2 to join their ranks in the future.”²⁸

3 Dr. Roycroft also cited (at 47) a *Wall Street Journal* article in his overall
4 conclusion that wireless should not be considered part of the relevant product
5 market. While pointing out some issues that consumers have encountered (such
6 as the apparent inability to order pizza), Dr. Roycroft entirely misses the point of
7 the article and its significance to this merger. First, as I have pointed out above, a
8 service does not need to be identical to serve as a disciplining force for consumer
9 prices. So, the claimed inability of ordering pizza (assuming this is even
10 accurate) is irrelevant in this context as consumers still will substitute their
11 wireline service for wireless service should the wireless carrier decide to raise its
12 prices. Second, Dr. Roycroft conveniently ignores one of the main findings of
13 this article, that is, that landlines are decreasing at a rapid rate. Specifically, the
14 article states:

15 Indeed, landlines are disappearing at an increasing rate. The
16 number of traditional landlines in the U.S. fell to 182.8 million in
17 June, 2003, the latest period available from the Federal
18 Communications Commission...

19 [A]nalysts say that many of the dumped landlines were second
20 lines used for dial-up access or fax machines. But the long-term
21 trend is troubling for landline carriers. Forrester Research analyst
22 Charles Golvin projects that the proportion of wireless users

²⁸ Charles S. Groven, “Cord Cutting Reaches One in Twenty Mobile Households,” Forrester Research, May 5, 2005, <http://www.forrester.com/Research/Document/Excerpt/0,7211,36495,00.html>, accessed September 16, 2005.

1 without a landline will nearly triple to 13% by the end of
2 2006.” Other analysts agree, especially as younger cell phone users
3 set out on their own. ‘There’s a whole new generation of 18- to
4 22-year olds who have had wireless phones for the last four years,
5 who when they get out of college have no incentive to put
6 landlines into their homes,’²⁹

7 **Q. WHEN CONSIDERING THE PRICE CONSTRAINING EFFECTS OF**
8 **WIRELESS SERVICES ON WIRELINE SERVICES, DOES IT MATTER**
9 **HOW MANY CUSTOMERS HAVE “CUT THE CORD”?**

10 A. No. The question of how many customers have cut the cord in the past does not
11 matter here if: (1) the merger does not affect competition for reasons having
12 nothing to do with wireless substitution (such as the fact that MCI is no longer
13 constraining Verizon’s prices); or (2) a post-merger, anticompetitive attempt by
14 Verizon to increase its wireline prices would cause a substantial number of
15 wireline customers to increase their wireless usage. On both counts the answer is
16 that historical cord cutting does not matter because: (1) whatever the percent of
17 “cord cutters,” the merger will not affect mass market prices or market outcomes;
18 and (2) the evidence shows that a substantial number of wireline customers likely
19 would respond to such a price increase by switching to wireless service.

20 It should also be noted that a significant share of cutters is not required for
21 wireless displacement to discipline wireline pricing and for wireless to be
22 considered part of the same market as wireline. That is because competition in
23 markets takes place at the margin, not the average. In setting prices for wireline

²⁹ “Choosing Cell Over Landline Can Bring Unexpected Pain,” *The Wall Street Journal Online*, July 9, 2005, http://online.wsj.com/article_print/0,,SB108921367434057319,00.html, accessed October 5, 2005.

1 services, companies take into account that changes in wireline prices will
2 encourage at least some consumers to consume more or fewer wireless services,
3 and a wireline price increase will cause the demand for wireless services to shift
4 upward. This fact constrains wireline prices, even though only a relatively small
5 proportion of wireless customers are actually at the margin. Thus, even if a
6 relatively small percent of households have currently given up their wireline in
7 favor of a wireless phone, the fact is that the threat of additional cord cutting
8 constrains ILECs from raising wireline prices above a competitive market level.
9 Competition at the margin is particularly effective against wireline telephone
10 companies like Verizon because its cost structure is disproportionately dominated
11 by fixed or sunk costs.³⁰ For such firms, small losses of volume to competitors
12 result in a large reduction in profits, mainly because costs do not fall when
13 customers leave. Dr. Roycroft ignores these important economic considerations
14 when he excludes wireless competitors from his analysis.

15 Finally, the effect of cutting the cord is not measured exclusively by looking at
16 consumer demand, that is, the number or proportion of households that give up
17 wireline telephone service, as Dr. Roycroft does. On the supply side of the
18 market, some integrated wireline and wireless firms are spinning off their wireline
19 businesses with the expectation that an exclusively wireless product offering
20 would be more profitable. An explicit component of the recently consummated

³⁰ See Jerry A. Hausman, "Regulated Costs and Prices in Telecommunications," in Gary Madden (ed.), International Handbook of Telecommunications Economics, Volume 2: Emerging Telecommunications

1 Sprint/Nextel merger is the sale of Sprint’s local exchange service and Alltel
2 recently announced its decision to spin-off its wireline division.³¹

3 **Q. DOES SERVICE QUALITY OR OTHER LIMITATIONS PREVENT**
4 **WIRELESS FROM BEING A SUBSTITUTE FOR WIRELINE?**

5 A. No. In suggesting otherwise, Dr. Roycroft (at 50) claims that wireless service
6 quality is substantially inferior to wireline service quality and argues, in
7 particular, that it has “dead zones.” To begin with, I do not agree with
8 Dr. Roycroft that wireless should be dismissed as a competitive alternative to
9 wireline service because wireless coverage is not uniform (i.e., that it has dead
10 zones). Indeed, a recent study by In-Stat/MDR concluded that “[b]arriers to
11 wireline replacement, *particularly network coverage and quality-of-service*, are
12 relatively low and that wireless carriers are working aggressively to neutralize
13 these shortcomings.”³² Nationwide, wireless carriers have invested a cumulative
14 \$174 billion in their networks from 1985 through year-end 2004, which alone is
15 more than the first ten years of wireless investment.³³ As shown in Figure 6, the
16 result of these investments is substantially more cell sites, which now number

Networks, 2003.

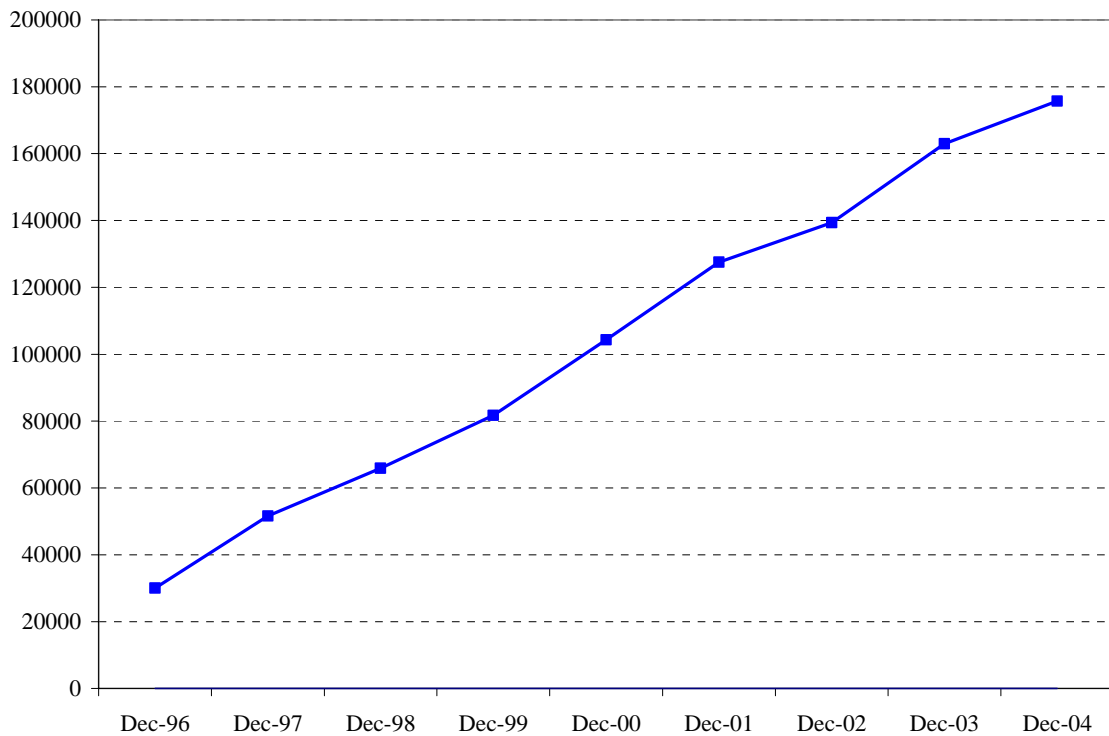
³¹ See Merger Announcement, “Sprint and Nextel To Combine In Merger Of Equals,” December 15, 2004 <http://sprintnextel.mergerannouncement.com/press/12_15_04.html> (15 September 2005). See also “Alltel’s Ford: Company Will Likely Spinoff Wireline Business,” Arkansasbusiness.com Daily Report, September 23, 2005 <http://arkansasbusiness.com/news/headline_article.asp?aid=41876> (September, 28 2005).

³² C. Wheelock, In-Stat/MDR, “Cutting the Cord: Consumer Profiles and Carrier Strategies for Wireless Substitution,” February 2004, p. 60 (emphasis added).

³³ CTIA SemiAnnual Survey, 2005.

1 nearly 176,000 locations in the U.S., up an average of 25 percent per year from
2 1996 to 2004. This network expansion allows wireless providers to offer better
3 coverage in a given area and/or expand the areas that they cover, as well as to
4 increase capacity.

Figure 6
Growth in Operational Cell Sites since December 1996
Has Averaged About 25 Percent Per Year



Source: CTIA, 2005

5 Evidence that the investments have been made to increase quality includes
6 Cingular's substantial investments in denser cell sites and better quality

1 networks.³⁴ Furthermore, the FCC noted in its Ninth CMRS Report that wireless
2 carriers now compete with wireline carriers on quality and have invested tens of
3 billions to ensure that consumers get more reliable wireless service.³⁵

4 Both in Washington generally and in Verizon’s service area specifically, one or
5 more wireless carriers cover virtually all households. In fact, two or more
6 wireless carriers cover over 97 percent of all households in Washington as well as
7 in Verizon’s service area.³⁶

8 Call completion is a key measure of network quality. A GAO study found that
9 the “industry standard” in the wireless industry is a “98 percent call-completion
10 rate” and that the vast majority of consumers experience few or no problems with
11 dropped calls.³⁷ Another study by CTIA and Telephia similarly found that “on
12 average wireless customers, in core and suburban areas, can expect to place, hold
13 and complete a conversation of acceptable audio quality 96-99 percent of the

³⁴ See *In the Matter of Annual Report and Analysis of Competitive Market Conditions with Respect to Commercial Mobile Services*, Ninth Report (“Ninth CMRS Report”), FCC 04-216, released September 28, 2004, ¶ 149 <http://hraunfoss.fcc.gov/edocs_public/attachmatch/FCC-04-216A1.pdf>(July 28, 2005).

³⁵ See Ninth CMRS Report, ¶ 148.

³⁶ U.S. Census Bureau and individual carriers’ websites.

³⁷ See General Accounting Office, *FCC Should Include Call Quality in Its Annual Report on Competition in Mobile Phone Services*, p. 22, Report No. GAO-03-501, April 2003. “While carriers did not provide us with detailed information on blocked and dropped calls, network officials at two carriers said that their goal was to have a 98 percent call-completion rate. . . . These officials and those at other carriers said that 98 percent is generally the industry standard.”; *id.*, p. 29 (finding that 78 percent of consumers either did not experience problems with dropped calls or only experienced problems on fewer than 10 percent of their calls).

1 time.”³⁸ In any event, to the extent that consumers do experience problems with
2 dropped calls, it is chiefly due to the subscriber being on the move during the call,
3 a feature that wireline networks do not offer in the first place.³⁹

4 **Q. EVEN IF THERE WERE DIFFERENCES IN SERVICE QUALITY**
5 **BETWEEN WIRELINE AND WIRELESS, DOES THIS**
6 **AUTOMATICALLY MEAN THAT THEY ARE NOT ECONOMIC**
7 **SUBSTITUTES?**

8 A. No. Customers constantly choose products based on characteristics that are
9 important to them. For many customers, the convenience of a mobile phone, the
10 generous buckets of any time, any distance wireless minutes, and/or the unique
11 features of cell phones (including the ability to take and wirelessly transmit
12 pictures from any location at any time) outweigh any inconvenience that might be
13 caused by a dropped call or a bad connection (which is not limited to wireless
14 phones in any event).

15 Moreover, the test of whether a product should be included in a relevant market
16 turns not merely on whether the service is actually being provided (or, in the case
17 of wireless service, whether coverage currently exists) in a particular geographic
18 area but also on whether a potential competitor could readily provide an
19 alternative in that area if the incumbent provider raises the price of the service at

³⁸ CTIA Press Release, “Market Research Finds Outstanding Wireless Network Performance,”
July 18, 2001.

³⁹ See FCC, *Understanding Cell Phone Coverage Areas*
<<http://www.fcc.gov/cgb/consumerfacts/cellcoverage.html>> (17 August 2005). “When a carrier fails to

1 issue above competitive levels. As I explained, wireless carriers have already
2 deployed extensive networks in Washington and they could readily expand those
3 networks to provide wireless services in areas where the price of wireline service
4 has increased in a way that makes expansion to those areas more attractive. Thus,
5 the lack of wireless service coverage in some areas of the state today does not
6 mean that wireless service is not a viable competitive alternative to wireline
7 service.

8 **Q. IS DR. ROYCROFT’S SURVEY INFORMATION OF ANY VALUE?**

9 A. No. Dr. Roycroft (at 50–51) cites surveys that allegedly show that consumers are
10 dissatisfied with the quality of wireless service, stating that they support his view
11 that wireless cannot be considered a competitive alternative to wireline.
12 However, Dr. Roycroft is rather selective in the choice of surveys he has
13 considered for his argument. There are a number of other surveys that Dr.
14 Roycroft elected not to review. For instance, a recent report by Harris Interactive,
15 a consumer research company, reports that roughly the same number of
16 respondents was satisfied with their wireless service (90 percent) as with their
17 local service (92 percent) and long distance service (90 percent). And the percent
18 who found these services to be a “good value” was also about the same—
19 77 percent for local, 78 percent for long distance, and 75 percent for wireless.
20 Furthermore, the survey finds that “three in four (73%) use a wireless phone

hand off a call in progress as a consumer travels from one part of the carrier’s network to another, it is called a ‘dropped call.’”

1 instead of a landline to make a long distance call at least occasionally, while 65%
2 do so to make local calls.”⁴⁰ This is clear evidence that a substantial share of the
3 population views wireless as a substitute for wireline service. Finally, the report
4 states that “nearly half (46%) of all respondents, and 57% of those with incomes
5 of more than \$100K, are likely to use VoIP in place of a landline.”⁴¹

6 **Q. DR. ROYCROFT (AT 47) CLAIMS THAT THE COST OF WIRELESS**
7 **SERVICE IS A REASON TO CONCLUDE THAT CONSUMERS DO NOT**
8 **REGARD WIRELESS AS A COMPETITIVE ALTERNATIVE TO**
9 **WIRELINE. DO YOU AGREE?**

10 A. Certainly not. In making this claim, Dr. Roycroft (id.) also acknowledges that
11 “[w]ireless calling plans offer ‘buckets’ of minutes that can be used at any time.”
12 As I explained in my Direct Testimony (at 69–72), it is precisely these wireless
13 plans that have generated intense competition between wireless carriers and
14 wireline carriers. Wireline carriers have been forced to offer calling plans that
15 also include “buckets of minutes for a fee.” In addition, as the FCC has observed,
16 “a number of analysts have argued that wireless service is cheaper than wireline,
17 particularly if one is making a long distance call or when traveling.”⁴²

18 Available evidence indicates that wireless and wireline now closely compete with
19 one another because wireless companies have cut prices and increased the

⁴⁰ *Id.*, p. 10.

⁴¹ *Id.*, p. 11.

⁴² Ninth CMRS Report, ¶ 213.

1 reliability of their service. Wireless prices have declined nearly 80 percent over
2 the last decade.⁴³ Wireless and wireline prices for similar service offerings are
3 now comparable.⁴⁴ According to one analyst, “[w]ireless pricing dropped below
4 wireline pricing in 2003 for the first time.”⁴⁵

5 Dr. Roycroft (at 47) chooses to gloss over the wireless buckets of minutes by
6 focusing on the relatively high per-minute fees that wireless customers pay when
7 they exceed their allotted minutes-of-use. However, he ignores the fact that these
8 same fee arrangements exist with respect to wireline packages as well. Moreover,
9 Dr. Roycroft provides no evidence that these fees are deterring the displacement
10 of wireline service or that they would do so in the event of a significant,
11 nontransitory increase in the price of wireline service. He also does not show that
12 the “substantial penalties for early termination,” have had any detrimental impact
13 on wireless growth or substitution for wireline.

14 More important, with respect to the central question of whether the merger will
15 adversely affect mass market competition, Dr. Roycroft ignores the fact that
16 MCI’s local service product focuses almost exclusively on its combined local/toll
17 offering, “the Neighborhood” which costs about \$50 or far more than the basic
18 service rates he ascribes to wireline service.

⁴³ CTIA SemiAnnual Wireless Survey, 2005.

⁴⁴ See Opening FCC Application, Hassett et al. Declaration, Exhibit 2, p. 15.

1 **Q. DOES THE FACT THAT VERIZON PROVIDES WIRELESS SERVICE**
2 **THROUGH VERIZON WIRELESS MEAN THAT WIRELESS SERVICE**
3 **CANNOT BE COUNTED ON TO CONSTRAIN WIRELINE PRICES, AS**
4 **DR. ROYCROFT SUGGESTS (AT 51)?**

5 A. No. Dr. Roycroft's theory is that Verizon need not worry about its wireline prices
6 because if its wireline customers switch to its wireless service, Verizon still
7 makes money. However, this theory makes no economic or business sense. If a
8 wireline customer migrates to Verizon's wireless service, Verizon obtains only 55
9 percent of the new wireless revenues (reflecting its ownership interest in its
10 wireless venture), but Verizon also faces the risk that the customer may choose a
11 different wireless provider altogether. Moreover, although some wireless
12 companies (Verizon Wireless and Cingular) are partly owned by one or more
13 RBOCs, this ownership does not imply that these companies would forego
14 profitable opportunities to sell services to wireline customers, and the facts do not
15 support such an implication.

16 *First*, competition is intense among wireless providers and has driven wireless
17 prices down. Verizon Wireless (which Verizon owns with Vodafone) must
18 compete with the other wireless companies, and all of them, including Verizon
19 Wireless, have aggressively improved their service quality, introduced major
20 service innovations, and reduced their prices in a way that has made all of the
21 wireless companies' services better competitive alternatives to wireline services.

⁴⁵ Neeham V. Grover, *New Year's Resolution—Avoid the Bells*, December 29, 2003, p. 1.

1 Whether it likes it or not, to remain competitive in wireless services, Verizon
2 Wireless is compelled to compete with its wireline siblings.

3 *Second*, wireless companies affiliated with wireline companies have to compete
4 with wireless companies that are not affiliated with wireline companies, such as
5 T-Mobile and Virgin Mobile, or with companies that have a more significant
6 wireless presence than wireline presence, such as Sprint/Nextel. In order to
7 remain competitive with these companies, affiliated wireless companies need to
8 pursue profitable opportunities to sell services to wireline customers or they will
9 be punished by the market.

10 *Third*, some wireline firms do not own the entire wireless operation but have
11 partners that have no financial interest in the wireline business. In such cases
12 (and Verizon and its partner Vodafone is one), the wireless operation is even more
13 likely to operate in its own self-interest without taking into account its effects on
14 wireline providers in its territory. Consistent with that expectation, counsel
15 informs me that the fiduciary duty of Verizon Wireless's Board of Directors
16 would be to maximize the profits of Verizon Wireless regardless of the
17 consequences for Verizon Communications. In addition, Verizon Wireless
18 provides service nationally and competes against wireless companies that provide
19 service nationally. Thus, Verizon Wireless must be competitive with other
20 communications companies whether its offering is in Verizon's wireline territory
21 (and thus competes against Verizon's wireline business) and/or outside of

1 Verizon's wireline territory, where taking business from the ILEC has no adverse
2 financial consequences for the holding company.

3 **d. The intervenors improperly dismiss VoIP competition.**

4 **Q. SHOULD VOIP SERVICE BE INCLUDED IN THE RELEVANT**
5 **MARKET?**

6 A. Yes. Cable companies are currently offering VoIP in Washington. One analyst
7 recently observed that "the Bells appear to be responding to the VoIP threat with
8 price cuts" on their calling plans as cable companies have begun to achieve
9 significant market share in part due to their "aggressive pricing."⁴⁶ I showed in
10 my Direct Testimony (at 75-76) that these patterns hold true in Washington as
11 well.

12 More recently, Bernstein Research discussed growing evidence that VoIP service
13 provided by cable companies has a "halo effect," stimulating faster growth for
14 cable modem service, and lower churn for cable basic video.⁴⁷ The report
15 indicates that:

16 Cable gains appear...to be coming directly from the Bells, in the
17 form of subscriber losses. Despite a significant pull-back in
18 wholesale-based consumer voice services by AT&T and MCI, the
19 Bells' rate of UNE winback remained anemic, causing the Bells'

⁴⁶ See J. Halpern, et al., Bernstein Research Call, "Quarterly VoIP Monitor: The "Real" Price Gap for VoIP Driving Rapid Subscriber Growth," July 15, 2005, p. 5.

⁴⁷ Craig Moffett, Bernstein Research Call, "Quarterly VoIP Monitor: The 'Halo Effect' of VoIP Driving Faster Cable Broadband and Basic Subscriber Growth," August 24, 2005.

1 total losses (*i.e.*, retail plus wholesale) to closely parallel the gains
2 seen in VoIP penetration.⁴⁸

3 The Bernstein Research study concludes that “[r]isks to the RBOCs’ wireline
4 businesses stem from competition with the cable MSOs and other providers of
5 broadband and/or VoIP service, including those using alternative technologies
6 such as Wi-Max or [Broadband Over Powerline].”⁴⁹

7 Independent VoIP providers, such as Vonage, Lingo, and AT&T CallVantage, are
8 also serving customers in Washington. A September 17, 2005, article in *The*
9 *Economist*, entitled “How the Internet Killed the Phone Business,” discussed
10 eBay’s purchase of VoIP provider Skype, stating that it has highlighted the
11 significance of VoIP, and the enormous threat it poses to incumbent telecom
12 operators.

13 For the rise of Skype and other VoIP services means nothing less
14 than the death of the traditional telephone business, established
15 over a century ago. Skype is merely the most visible manifestation
16 of a dramatic shift in the telecoms industry, as voice calling
17 becomes just another data service delivered via high-speed internet
18 connections. Skype, which has over 54m users, has received the
19 most attention, but other firms routing calls partially or entirely
20 over the internet have also signed up millions of customers.

21 The ability to make free or almost-free calls over a fast internet
22 connection fatally undermines the existing pricing model for
23 telephony. “We believe that you should not have to pay for
24 making phone calls in future, just as you don’t pay to send e-mail,”
25 says Skype’s co-founder, Niklas Zennstrom. That means not just

⁴⁸ *Id.*

⁴⁹ *Id.*, p. 13.

1 the end of distance and time-based pricing – it also means the slow
2 death of the trillion-dollar voice telephony market, as the marginal
3 price of making phone calls heads inexorably downwards.⁵⁰

4 Recognizing the importance of this technology, Verizon is offering VoiceWing,
5 its VoIP service, in the state as well. Qwest has also responded and now provides
6 its OneFlex VoIP service for residential and small business customers; it recently
7 announced a joint venture with Microsoft to provide a business-oriented VoIP
8 service for small and midsized business customers.

9 **Q. DO THE INTERVENORS INCLUDE VOIP PROVIDERS IN THE**
10 **RELEVANT MARKET?**

11 A. Mr. Wilson does not consider VoIP providers at all. Dr. Roycroft does but only to
12 the extent that the VoIP service is provided by a cable company that has included
13 its VoIP numbers in the E911 database; this count omits all of the stand-alone
14 providers of VoIP service over broadband connections. Dr. Roycroft (at 57–65)
15 dismisses VoIP as a competitive alternative, citing everything from limited
16 availability, bundled purchase options, unreliability, special skill requirements,
17 the absence of 911 services, to the recent Supreme Court decision in the *Brand X*
18 case. Dr. Roycroft does not provide any analysis to support his reasons for
19 dismissing VoIP and, in fact, he was wrong to do so.

⁵⁰ “How the Internet Killed the Phone Business,” *The Economist*, September 17, 2005.

1 **Q. DO YOU AGREE THAT DIFFERENCES IN SERVICE**
2 **CHARACTERISTICS PRECLUDE VOIP FROM BEING CONSIDERED A**
3 **SUBSTITUTE FOR WIRELINE SERVICE?**

4 A. Absolutely not. Like the wireless services that I just discussed, VoIP service
5 characteristics do not have to be identical to wireline service characteristics for
6 customers to regard them as substitutes. The steady, rapid growth of VoIP
7 services that I discussed in my Direct Testimony (at 31–36) demonstrates that any
8 differences that might exist are not deterring consumers from purchasing VoIP
9 services as substitutes for wireline services and would not serve as a deterrent to
10 substitution in the event Verizon were to increase its wireline prices above
11 competitive levels after the transaction.

12 Indeed, despite differences in some service characteristics, customers are already
13 treating VoIP service as a replacement for their telephone line, not simply as a
14 source of cheap long distance service. This is demonstrated by the fact that only
15 approximately 50 percent of Vonage customers maintain their old phone number
16 when they switch to Vonage.⁵¹ This fact also disproves Dr. Roycroft’s claim (at
17 58) that “Vonage or a similar service ... [are disadvantaged by the] lack of
18 number portability....” Certainly, the communications industry does not believe
19 that VoIP’s service characteristics prevent customers from substituting it for
20 wireline service. The fact that Verizon and Qwest have developed and marketed

⁵¹ See J. Hodulik, et al., UBS Investment Research, *The Vonage Story: The Who, What, Where, and How*, November 24, 2003, p. 5; A. Quinton, et al., Merrill Lynch, *US VoIP Update: Competitive, Regulatory, and Other Issues*, November 25, 2003, p. 9.

1 their own VoIP service is strong evidence of the industry-wide recognition of the
2 crucial importance of VoIP as a means of lowering costs of production and prices
3 for consumers as well as a means of providing innovative new services.

4 **Q. IS IT CORRECT TO COMPARE MCI'S PROSPECTS IN THE MASS**
5 **MARKET WITH WHAT IS OCCURRING WITH OTHER**
6 **COMPETITORS, SUCH AS VOIP PROVIDERS, IN THE GENERAL**
7 **MASS MARKET?**

8 A. No. Dr. Roycroft (at 55) claims that “the issue of VoIP [sic] raise[s] a
9 contradiction in Joint Petitioners’ overall case that the transaction will have no
10 competitive harm.” He asks, “if it is so easy to grow a business using VoIP, then
11 why does MCI view the mass market in ‘irreversible decline’?” There is no
12 contradiction between the evidence that VoIP providers are a source of price-
13 constraining competition and MCI’s assertion that *its* mass market business is in a
14 continuing and irreversible decline. As I have explained, VoIP service is a
15 competitive substitute for wireline service. However, as MCI witness Mr. Beach
16 explains (at 10) in his Rebuttal Testimony, offering VoIP service cannot revive
17 *MCI’s* deteriorating mass market business. Today, MCI is providing residential
18 VoIP on a limited trial basis and is well behind other service providers. However,
19 MCI has no unique characteristics that would distinguish it from other providers
20 and, as a late entrant to the provision of VoIP service, it would only be one of
21 many such providers. Thus, there is no reason for Dr. Roycroft’s assumption that
22 MCI could have revived its mass market business through a commercial VoIP
23 offering, if MCI were ever to offer one. For the same reason, there is no reason to

1 conclude that MCI's own decision to manage the decline of its mass market
2 business (and to focus instead on the enterprise market) means that VoIP is not a
3 viable means of competing with Verizon.

4 **Q. DR. ROYCROFT (AT 58) CLAIMS THAT LOCAL EXCHANGE**
5 **CARRIERS ARE BUNDLING THEIR VOICE SERVICE WITH DSL**
6 **SERVICE AND THAT DSL CANNOT BE USED TO OBTAIN VOIP**
7 **UNLESS VOICE SERVICE IS ALSO PROVIDED. HE MAINTAINS**
8 **THAT THIS IS A BARRIER TO THE DISPLACEMENT OF WIRELINE**
9 **SERVICE BY VOIP. IS HE CORRECT?**

10 A. No. This claim relates to Verizon's offering known as "stand-alone DSL" service
11 (i.e., a DSL line without voice). If it were true that the lack of a stand-alone DSL
12 product from the ILECs were a deterrent to VoIP subscribership, then VoIP
13 subscribership would not be growing by leaps and bounds as it has been for the
14 last year. In fact, there are two reasons why the alleged absence of stand-alone
15 DSL is not an impediment to wireline customers switching to VoIP.

16 *First*, Dr. Roycroft ignores the fact that consumers can and are using existing
17 forms of broadband connections to obtain VoIP, regardless of the availability of
18 stand-alone DSL. Broadband services that enable VoIP are widely available in
19 Washington. A recent FCC report indicates that as of December 31, 2004,
20 broadband service is available in 98 percent of the zip codes in Washington, and
21 three or more broadband providers are available in 71 percent of the zip codes in
22 all the state.⁵² Cable modem service is not only widely available throughout the

⁵² See FCC, Industry Analysis and Technology Division, Wireline Competition Bureau, *High-Speed Services for Internet Access: Status as of December 31, 2004*, July 2005, Table 13.

1 state, but it is also the major source of broadband in Washington. As of
2 December 31, 2004, coaxial cable accounted for approximately 56 percent of the
3 nearly 900,000 high-speed lines serving Washington, while ADSL accounted for
4 only 38 percent.⁵³

5 *Second*, Dr. Roycroft is evidently unaware of the fact that, as Dr. Danner explains
6 in his rebuttal testimony, that Verizon is already moving ahead with a stand-alone
7 DSL offering. Verizon would not be taking these steps if it had any interest in
8 “tying” local service to broadband, as Dr. Roycroft baldly asserts. Indeed, the
9 fact that Verizon sees a business need to offer a stand-alone DSL product is solid
10 evidence of the fact that Verizon cannot “tie” one product to another. For a tying
11 arrangement to succeed, the firm must possess a monopoly on the product to
12 which the other product is tied. This obviously is not the case here.

13 **Q. DR. ROYCROFT (AT 57) CLAIMS THAT BROADBAND SERVICE IS**
14 **NOT AVAILABLE TO ALL CONSUMERS IN WASHINGTON, SO THEY**
15 **COULD NOT SWITCH TO VOIP SERVICE IF THEY WANTED TO DO**
16 **SO. IS HE CORRECT?**

17 A. No. As I just explained, broadband service is available in 98 percent of all zip
18 codes in Washington and, in any event, a service does not need to have perfect
19 coverage for it to be a competitive alternative. What matters is whether: (1) a
20 substitute is available to enough potential consumers so that if a firm (e.g.,
21 Verizon) were to try to raise the price of its service above competitive levels so

⁵³ *Id.* Table 7. The remaining 6 percent are served by other types of technology.

1 that doing so would be unprofitable because those consumers could switch to the
2 alternative (e.g., VoIP) or a set of different alternatives (e.g., VoIP, Cable
3 telephony, or wireless) they would switch to one of the alternatives; and (2)
4 whether providers could expand their service to offer VoIP if Verizon were to
5 increase prices above competitive levels. Cable companies already have
6 extensive facilities in Washington that they could expand to areas where they are
7 not already providing service if an increase in Verizon’s prices attracted entry.

8 **Q. DR. ROYCROFT (AT 60-62) ALLEGES THAT USING VOIP REQUIRES**
9 **SPECIAL SKILLS. IS THIS CORRECT?**

10 A. No. A VoIP telephone is not any more complex to use than a regular telephone
11 and there are no special skills involved in using it. The apparent “special skills”
12 Dr. Roycroft is referring all relate to the installation of VoIP phones. This,
13 however, is not an important point because, as Dr. Roycroft acknowledges,
14 consumers lacking the necessary computer skills can always opt to have the phone
15 installed professionally. Furthermore, installation of VoIP telephones is
16 becoming increasingly simple. For instance, Uniden, a wireless consumer
17 electronics manufacturer, advertises its “whole house VoIP phone system,” as a
18 “snap” to use...⁵⁴ While there is a possibility that some consumer might have to
19 reconfigure the router of such system, this task is no more difficult than setting up
20 an email account. Dr. Roycroft’s claim that the need for “special skills” to install
21 a VoIP telephone excludes VoIP as a competitive alternative to an ordinary

⁵⁴ Packet8, Uniden, < <http://www.packet8.net/about/uniden.asp>> (September 29, 2005).

1 telephone is akin to saying that computers cannot serve as a substitute for
2 typewriters as computers require “special skills” to install the necessary software.

3 **Q. IS THE COST OF A BROADBAND CONNECTION A DETERRENT TO**
4 **CUSTOMERS WHO MIGHT WANT TO SWITCH TO VOIP, AS**
5 **DR. ROYCROFT (AT 57) IMPLIES?**

6 A. No. VoIP services are marketed to and purchased by consumers who already
7 have made the decision to subscribe to broadband to obtain high-speed Internet
8 access based largely on the *marginal* costs to those customers. The rapid growth
9 of VoIP subscriptions means that traditional wireless voice providers like Verizon
10 cannot afford to assume that the cost of broadband service generally deprives
11 consumers of the VoIP option. As I showed in my Direct Testimony (at 30),
12 Vonage is adding some 15,000 new VoIP subscriptions per week and this is just
13 one of several VoIP providers serving Washington customers. Obviously, the
14 incremental cost of adding VoIP service is not preventing customers from
15 switching to the digital voice services offered by cable companies and VoIP
16 providers.

17 Also, VoIP packages are priced much lower than comparable ones from MCI and
18 Verizon in Washington. Compared to MCI Neighborhood’s \$49.99 per month
19 and Verizon Freedom’s \$64.95 per month, Vonage’s and Package 8’s unlimited
20 nationwide calling plans charge \$24.99 and \$19.95 respectively per month.

21 Comcast’s cable telephony charges \$39.95 per month. In general, service

1 offerings from VoIP competitors are comparable and priced lower than those
2 from MCI and Verizon.⁵⁵

3 But even if the price of broadband and VoIP packages were more than some
4 customers want to pay, it matters only that a sufficient number of customers
5 would switch if the price of Verizon's wireline service were to increase above
6 competitive levels or the quality of its service were to decline as a result of this
7 transaction. Said differently, the availability of VoIP services motivates Verizon
8 to maintain competitive prices; otherwise, those customers can and would switch
9 to VoIP (and/or other alternative) services and, in effect, punish Verizon for
10 increasing prices above the competitive level.

11 **Q. DR. ROYCROFT (AT 59) SAYS THAT "THE INTERNET IS AN**
12 **INHERENTLY UNRELIABLE NETWORK." DO YOU AGREE?**

13 A. I strongly disagree with Dr. Roycroft for several reasons. As a threshold matter,
14 whatever the differences between wireline service quality and VoIP service
15 quality may be, they do not provide valid reasons not to consider VoIP service a
16 substitute for wireline service. As with wireless service (or any other alternative
17 to wireline service), service quality is but one consideration in a consumer's
18 decision concerning whether to switch to VoIP service. While some wireline
19 customers may regard the quality of VoIP service as a reason not to switch from
20 wireline, what matters is whether enough wireline customers would be willing to

⁵⁵ See Opening FCC Application, Hassett et al. Declaration, Exhibit 2, p. 15.

1 switch to VoIP (or other substitutes) in the event of a significant, nontransitory
2 price increase in wireline service.

3 Also, as with wireless service, the evidence of steadily increasing VoIP
4 subscriptions strongly suggests that the quality of VoIP service is not preventing
5 wireline customers from switching to that service. Further, while VoIP service
6 quality may have been an issue for some customers when VoIP was first
7 introduced, VoIP providers are working assiduously (and it appears, successfully)
8 to eliminate service quality issues. A recent NEW YORK TIMES article gave this
9 account of the progress already achieved in improving VoIP service quality:

10 “For the first year or so, we had problems with people not hearing
11 us, or voices would sound scratchy,” said Sowmya Parthasarathy,
12 who has been a Vonage subscriber for nearly two years and “used
13 to spend hours on the phone” with the company’s operators. “But
14 they really seem to have fixed the problems.”⁵⁶

15 More recently, a broadcast on National Public Radio described how VoIP service
16 quality is actually *better* than wireline service quality:

17 When you go digital and when you’re over the Internet and you
18 have enough reliable bandwidth, you can get very high quality.
19 And what you’re going to see over time is that the concept of voice
20 is going to get better. You’re used to stereo quality or digital
21 quality, where the normal phone system was designed actually to
22 truncate about two-thirds of people’s voice. So it’s not—you’re
23 not hearing over the phone everybody’s true voice.⁵⁷

⁵⁶ Ken Benson, “INSIDE THE NEWS: Cable’s New Pitch: Reach Out and Touch Someone,” *New York Times*, Sunday Business, May 8, 2005, Late Edition—Final, Section 3, Page 5, Column 1.

⁵⁷ National Public Radio: All Things Considered. Interview: Scott Cleland Discusses Firms Vying to Dominate Messaging Convergence, August 24, 2005.

1 Finally, my office in Boston has used VoIP exclusively for the past two years and
2 neither our clients nor I have noticed any difference in quality.

3 **Q. DOES THE FACT THAT VOIP SERVICE CAN BE DISRUPTED DURING**
4 **A POWER OUTAGE PREVENT VOIP FROM BEING CONSIDERED A**
5 **SUBSTITUTE FOR WIRELINE SERVICE AS DR. ROYCROFT CLAIMS**
6 **(AT 60)?**

7 A. No, for the same reasons that differences in service quality do not have that effect.
8 And the facts, in particular, the unbelievable surge of customers, show that it is
9 not having that effect.

10 **Q. DR. ROYCROFT (AT 62) CONTENDS THAT THE LACK OF**
11 **TRADITIONAL 911 AND E911 SERVICE WILL PREVENT WIRELINE**
12 **SUBSCRIBERS FROM SWITCHING TO VOIP SERVICE. DO YOU**
13 **AGREE?**

14 A. No. Although E911 service had been an issue in the provisioning of
15 applications-based VoIP services, the industry is working hard to address the
16 issue and has made substantial progress in that direction. Large cable companies,
17 fast-growing, well-funded firms like Vonage, and carriers such as AT&T and
18 Verizon are all collaborating to develop E911 capability for VoIP. Given these
19 efforts, any technological hurdles that remain are likely to be overcome in the
20 near term. In addition, as discussed above, even if VoIP could never provide
21 E911 that would not imply that VoIP service would not be a substitute for
22 wireline service as evidenced by the customers who have already switched from
23 wireline voice service to VoIP service. The inability of wireless to provide 911 or

1 E911 when it was first introduced certainly did not deter customers from
2 purchasing wireless service.

3 **e. The intervenors inappropriately minimize the importance of**
4 **emerging technologies like Wi-Fi, WiMAX, BPL, and satellite**
5 **broadband.**

6 **Q. SHOULD EMERGING TECHNOLOGIES BE INCLUDED IN THE**
7 **RELEVANT MARKET?**

8 A. Yes. Some intervenors downplay emerging technologies as too speculative
9 because of possible startup difficulties and lack of current market share. For
10 instance, Mr. Wood (at 33) claims that “none of the intermodal alternatives or
11 nascent technologies listed by Dr. Taylor represents a viable substitute for these
12 services in the foreseeable future.” Obviously, I disagree.

13 WiMAX and other emerging technologies pose a serious and imminent
14 competitive threat in the next few years. According to one view:

15 The first implementations of WiMax—expected later this year and
16 in early 2006—won’t be aimed at mobile users. Instead, WiMax
17 will initially be used at fixed locations, as an alternative (or
18 backup) to traditional T1, cable-modem, and DSL broadband.
19 [WiMax] will also provide broadband access to remote areas
20 where cable and DSL providers have yet to tread. [However,] a
21 mobile version of WiMax is in the works, and analysts expect to
22 see the technology incorporated into laptops by 2007.⁵⁸

⁵⁸ Alan Cohen, “All the World’s a Hotspot,” *Corporate Counsel*, Volume 12, Issue 8, August 1, 2005.

1 Other industry analysts concur that WiMAX will have a big impact in the next
2 two to three years.⁵⁹ In-Stat projects that nearly 4.5 million customers worldwide
3 will subscribe to Voice over WiMAX by 2009.⁶⁰ In fact, Speakeasy, a national
4 broadband services company, has announced deployment of the largest of its kind
5 WiMAX service in Seattle, the first among several major cities, and has started
6 taking business customer orders since May.⁶¹

7 Similarly, Broadband over Powerlines (“BPL”) continues to make progress
8 toward having a significant competitive impact in the near term. In fact, a recent
9 article described BPL:

10 The technology that allows the internal power wiring in a home to
11 deliver broadband service is getting some heavy-hitting
12 endorsements from large technology companies including Intel,
13 Motorola and Cisco Systems...For several years, many have
14 hoped that BPL would allow electric companies to become a viable
15 third alternative to the cable and telephone companies providing
16 high-speed access to the Internet...The involvement of big tech
17 names in helping develop broadband over power line technology
18 could be a signal that it is finally coming of age. In addition to
19 companies like Intel and Motorola, others such as Google and IBM
20 also have taken notice of the technology. Last month, Google
21 invested in Current Communications Group, a BPL service

⁵⁹ “Executives Bullish on Fixed, Mobile Deployment of WiMax Technology,” *TR Daily*, June 29, 2005; see also “Who will rule the wireless world?” *Computer Weekly*, March 22, 2005.

⁶⁰ “WiMax Has Potential to Transform Telecom Markets,” In-Stat Press Release, February 16, 2005 <<http://www.instat.com/press.asp?Sku=IN0501958CT&ID=1248>> (August 17, 2005).

⁶¹ “Seattle Space Needle Anchors Speakeasy Wireless Broadband Service, Defining WiMAX Future,” *SpeakEasy Press*, May 4, 2005 <<http://www.speakeasy.net/press/pr/pr050405.php>> (September 29, 2005).

1 provider. IBM announced it would partner with Houston-based
2 power utility CenterPoint Energy to build a BPL network.⁶²

3 **C. By Ignoring Intermodal Competition, the Intervenor's Have Offered**
4 **Flawed Competitive Analyses and Equally Flawed Conclusions Based**
5 **on Those Analyses**

6 **Q. PLEASE EXPLAIN HOW THE FAILURE TO ACCOUNT FOR**
7 **INTERMODAL COMPETITION AFFECTS THE INTERVENOR'S**
8 **ANALYSES OF THE TRANSACTION'S EFFECT ON COMPETITION**
9 **FOR MASS MARKET CUSTOMERS?**

10 A. Such failures render each of their intervenor's analyses useless. By dismissing
11 intermodal competition as insignificant based on their belief that intermodal
12 technologies are "nascent," these witnesses fail to recognize that even small losses
13 in volume affects profitability. Even assuming for a moment that the intervenors
14 are correct about intermodal competition not being a major competitive threat
15 (and they are not), they fail to recognize that, because of an ILEC's cost structure,
16 what may appear to be modest losses of volume can quickly erode profitability.

17 In the current communications industry, Verizon is competing with CLECs, cable
18 companies, wireless providers, Internet and broadband providers, and VoIP
19 providers. Each of these communications services providers has the capacity to
20 compete head-to-head with Verizon for the very customers on whom the
21 intervenors focus their testimonies. Verizon's losses to these competitors, which
22 Mr. Wilson, Mr. Wood, and Dr. Roycroft dismiss as insignificant, are terribly

⁶² Marguerite Reardon, "Power line broadband gets popular with tech firms," *CNET News.com*, August 24, 2005 <http://news.com.com/Power+line+broadband+gets+popular+with+tech+firms/2100-1034_3-5842825.html> (September 15, 2005).

1 significant when considering whether the transaction will enable Verizon to
2 exercise market power and raise prices profitably to supra-competitive levels.

3 **Q. ARE THERE ANY ACADEMIC DISCUSSIONS THAT SUPPORT YOUR**
4 **POINT ABOUT THE SIGNIFICANCE OF EVEN “SMALL” LOSSES TO**
5 **COMPETITORS?**

6 A. Yes. MIT Professor Jerry Hausman provides an insightful exposition of how the
7 incipient loss of volume to competitors strongly limits the ability of firms with
8 high fixed or sunk costs to sustain supracompetitive price increases.⁶³ The basic
9 idea is straightforward: firms with high fixed or sunk costs must charge prices
10 that are well in excess of their marginal costs in order to earn normal profits (i.e.,
11 attract and maintain investors). Therefore, when such a firm loses customers to
12 competition, its revenues erode much more than the costs that it can avoid. If the
13 firm attempts to increase prices, the lost profits (revenue minus avoided cost)
14 from even a small decrease in customers could easily exceed the extra revenue
15 obtained from the price increases on the remaining customers.

⁶³ Appendix A to my Rebuttal Testimony sets forth a more detailed discussion of Professor Hausman’s exposition.

1 **D. The Intervenor’s Concentration Analyses Are Flawed and Their**
2 **Reliance on HHIs Is Misplaced**

3 **Q. DO MR. WILSON’S HHI CALCULATIONS PROVIDE A PROPER BASIS**
4 **FOR THE REVIEW OF THIS MERGER?**

5 A. No. Mr. Wilson’s HHI calculations are flawed in ways that cause them to
6 overstate the competitive impacts of the merger. *First*, while Mr. Wilson
7 acknowledges that intermodal competition is relevant, he excludes all forms of
8 intermodal competition from his analysis merely because it was more expedient to
9 do an analysis using available data regarding wireline CLECs. *Second*, Mr.
10 Wilson’s analysis is not forward-looking; it is based exclusively on information
11 from 2003 and 2004 and takes no account of significant trends in the
12 communications industry, including, most notably in this instance, MCI’s recent
13 decline in the mass market, as well as more general trends such as fixed-to-mobile
14 convergence and the strong initial success of VoIP providers, such as Vonage.
15 *Finally*, as I have mentioned, HHIs, if they are used at all in a merger evaluation,
16 should be used only as a screen and only as a starting point in a more careful,
17 probative analysis of competition, including the presence of entry barriers. Mr.
18 Wilson seems to rest his entire case on his calculation of market shares and HHIs,
19 along with some anecdotal evidence regarding the size of the market. Thus, his
20 application of a single part of the *Merger Guidelines* does not show that the
21 merger raises any competitive issues.

1 Significantly, however, if the Commission were to consider Mr. Wilson’s HHI
2 calculations despite its flaws, it should recognize that even these calculations
3 show that the incremental impact of the merger on Verizon’s market share and the
4 resulting HHI change is extremely small and well within the types of changes that
5 have been approved by antitrust authorities.

6 **Q. PUTTING ASIDE THE QUALITATIVE FLAWS IN HIS HHI**
7 **CALCULATIONS, ARE MR. WILSON’S HHI CALCULATIONS AT**
8 **LEAST MATHEMATICALLY CORRECT?**

9 A. No. Mr. Wilson calculates Verizon’s market share for each wire center.
10 However, rather than taking the square sum of each carrier’s market share, he
11 simply takes the square sum of Verizon’s share and the *combined* share of all
12 competitors. This error leads to overstated HHI values.

13 **Q. DO DR. ROYCROFT’S HHI CALCULATIONS ADD ANYTHING**
14 **MEANINGFUL TO THE REVIEW OF THIS MERGER?**

15 A. No. Dr. Roycroft improperly limits his analysis to competition from traditional
16 wireline providers and some cable-based VoIP providers.⁶⁴ For example, his HHI
17 calculations exclude market shares of wireless providers, broadband (email,
18 instant messaging) providers and stand-alone VoIP providers like Vonage;
19 therefore, he fails to account for almost all intermodal competition. Further,
20 Dr. Roycroft statement (at 79) that: “the elimination of UNE-P at TELRIC-based

⁶⁴ Dr. Roycroft (97) includes cable-based VoIP if it includes E911 (which it usually does), but excludes VoIP over broadband.

1 prices has caused a major contraction in the CLEC industry” suggests that even
2 the small historical MCI “market share” for mass market implied by Dr.
3 Roycroft’s data overstate MCI’s competitive significance in the market.. And,
4 like Mr. Wilson, Dr. Roycroft did not attempt to calculate an HHI using predicted
5 market shares, as an appropriate, forward-looking analysis requires.

6 **Q. SHOULD THE COMMISSION USE MR. WILSON’S AND DR.**
7 **ROYCROFT’S HHI CALCULATIONS IN ITS CONSIDERATION OF**
8 **THE TRANSACTION’S EFFECT ON COMPETITION?**

9 A. No. The Commission should not rely on those calculations because they overstate
10 concentration for the customer segments for which they were computed and
11 because they are not computed for the communications markets—i.e., the mass
12 market and the enterprise markets—in which Verizon is competing today and will
13 compete once the transaction is completed. These two intervenors’ reliance on
14 HHIs in these circumstances is misplaced. As I mentioned earlier, their HHIs use
15 stale market share data of only one type of communications provider currently
16 serving customers in Washington, that is, wireline local exchange carriers. In this
17 way, their HHIs reflect the *past* when, in fact, the relevant inquiry concerning
18 whether the Verizon/MCI transaction will injure competition is necessarily
19 predictive and *forward-looking*.

20 To be relevant to any antitrust issues raised by a transaction, HHI calculations and
21 other measures of concentration must enable a comparison of the future market

1 structure after the merger with that which would exist absent the merger.⁶⁵
2 Indeed, for this reason the *Merger Guidelines* state that the shares used to
3 calculate HHIs should themselves “be calculated using the best indicator of firms’
4 *future* competitive significance.”⁶⁶ For many mergers, an analysis of the structure
5 and performance of the market in the recent past provides a sound basis for
6 predicting the structure and performance of the market in the future. For such
7 mergers, HHIs and other data from the recent past serve, in effect, as proxies for a
8 more direct examination of likely future attributes of the market.

9 In other situations, however, past is not prologue. Where markets are
10 characterized by rapid technological or other changes, or individual firms are
11 either declining or rising rapidly, sound merger analysis requires either that past
12 data not be used for calculations of market structure or that calculations based on
13 such data be used for only limited and tentative purposes.

14 The Verizon/MCI transaction presents just such a situation. Given the profound
15 technological changes that have transformed the industry and that continue to
16 change it, it is illogical to rely on HHI calculations based entirely on past data and
17 to ignore recent changes in the market. However, that is exactly what Mr. Wilson
18 and Dr. Roycroft did in calculating the HHIs offered for the Commission’s

⁶⁵ See *Merger Guidelines* § 0. “[T]he picture of competitive conditions that develops from historical evidence may provide an incomplete answer to the forward-looking inquiry of the Guidelines.”

⁶⁶ *Id.* § 1.41 (emphasis added).

1 consideration. The *Merger Guidelines* on which the intervenors purportedly rely
2 make it abundantly clear that HHI calculations must be based on
3 “forward-looking” shares, that is, the shares that would prevail in the absence of
4 the proposed transaction.⁶⁷ There is simply no sound basis in law, economics, or
5 public policy for calculating HHIs and basing competitive analyses on *past* data
6 that is so patently obsolete. Mr. Wilson’s and Dr. Roycroft’s competitive
7 analyses are fundamentally flawed because they are backward-looking when the
8 market is in the throes of rapid and profound changes.

9 **Q. IS THE USE OF MARKET SHARE DATA FOR A HISTORICALLY**
10 **REGULATED FIRM AN ACCURATE TOOL TO ANALYZE THE**
11 **PROPOSED TRANSACTION?**

12 A. No. Because Verizon has been the regulated provider of telecommunications
13 services to most customers in its Washington service area, its legacy of a
14 relatively large market share is of little help in understanding the competitive
15 prospects in the market from today forward. As the economic literature explains,
16 regulation may increase a firm’s market share and thus create the appearance of
17 monopoly power. For example, the price of a regulated service may be above
18 marginal cost in some markets and below marginal cost in others. In markets
19 where the regulated price falls below marginal cost, the regulated firm is apt to
20 have 100 percent market share. The reason for this “monopoly market share,”
21 however, is not due to market power. Rather, this share is due to the fact that the

⁶⁷ See *Merger Guidelines* § 1.521.

1 market is so unattractive to other providers that the only firm that will serve it is
2 one that is required to serve it or the one that is induced to remain in it by the
3 opportunity to recoup its losses in its other markets. In such cases, a high market
4 share is a symptom of a lack, rather than the possession, of market power.

5 In addition, the prices of regulated firms—particularly prices of basic exchange
6 services—have been held below a competitive market level by regulation, in order
7 to foster universal service. It would not be an exercise of market power if a firm
8 were to raise its price profitably from prices that were set by regulation below the
9 competitive market level.

10 **Q. HOW DOES THE DOJ USE HHI CALCULATIONS IN ITS MERGER**
11 **ANALYSES?**

12 A. The *Merger Guidelines* describe a limited role for HHI calculations, as “an aid to
13 the interpretation of market data,” and this is how the DOJ uses them.⁶⁸ In fact,
14 since the *Merger Guidelines* were issued, HHIs “have, become *progressively less*
15 *significant*,” as FTC Commissioner Thomas Leary explained in 2002.⁶⁹ In a
16 similar vein, Lawrence Fullerton, then-Deputy Assistant Attorney General for
17 Antitrust at DOJ, said in 1996 that the DOJ does “not approach merger analysis
18 mechanistically” and that, after defining markets and assessing market

⁶⁸ *Id.*

⁶⁹ Thomas B. Leary, Commissioner FTC, “The Essential Stability of Merger Policy in the United States,” January 17, 2002 (emphasis added) <<http://www.ftc.gov/speeches/leary/learyuseu.htm>> (September 15, 2005).

1 concentration, the DOJ then determines “whether anticompetitive effects are
2 likely, given the[] concentration levels and other characteristics of the market.”⁷⁰

3 The deemphasizing of simple arithmetic calculations in merger analysis is not just
4 a matter of words. It is plainly reflected in the enforcement decisions of the
5 federal antitrust agencies, in both Democratic and Republican administrations. A
6 study of DOJ and FTC merger challenges from 1999 to 2003 confirms that “a gap
7 exists between the Merger Guidelines as written and actual enforcement
8 practice.”⁷¹ When Cingular and AT&T Wireless merged, the DOJ sought
9 remedies only with respect to a handful of 450 Component Economic Areas and
10 Cellular Market Areas having post-merger HHIs ranging from approximately
11 4400 to more than 8000, with increases in the HHI as a result of the merger
12 ranging from approximately 1100 to more than 3500.

13 **Q. WHAT DO THE INTERVENORS’ WITNESSES’ HHI CALCULATIONS**
14 **REVEAL ABOUT THE TRANSACTION’S EFFECT ON MASS MARKET**
15 **COMPETITION?**

16 A. Although the calculations are flawed for reasons that I have explained, flawed as
17 they are, they still present no reason to conclude that the transaction will harm
18 competition for mass market customers. Mr. Wilson calculated an HHI change of

⁷⁰ Lawrence R. Fullerton, Deputy Assistant Attorney General, “Recent Developments in Merger Enforcement,” delivered February 9, 1996, text released March 13, 1996
<<http://www.usdoj.gov/atr/public/speeches/fullerton.htm>> (September 15, 2005).

⁷¹ John Kwoka, Professor Economics Northeastern University, “Some Thoughts on Concentration Market Shares, and Merger Enforcement Policy,” presented at FTC/DOJ Workshop on Merger Enforcement, February 17, 2004, p. 7, <<http://www.ftc.gov/bc/mergerenforce/presentations/040217kwoka.pdf>> (September 15, 2005).

1 69 in the residential “market” that he defined; Dr. Roycroft calculated HHI
2 changes of 163 and 114 for residential and business customers, respectively. The
3 changes are well below levels that the DOJ found acceptable. And when properly
4 considered in relation to other important factors, such as MCI’s decline and the
5 surge in intermodal competition, the HHIs provide no basis adopting any of the
6 conditions proposed by the intervenors based on their claims of harm to
7 competition.

8 **E. The Transaction Will Not Harm Competition for Long Distance**
9 **Services**

10 **Q. DR. ROYCROFT (AT 65) DISAGREES WITH YOUR CONCLUSION**
11 **THAT THIS MERGER WILL HAVE NO ADVERSE EFFECT ON**
12 **COMPETITION FOR LONG DISTANCE CUSTOMERS. HOW DO YOU**
13 **RESPOND?**

14 A. First, there is ample evidence that there no longer is a stand-alone long distance
15 market. But even if such a market were considered here, competition for
16 long-distance services in Washington (and nationally) is intense as many firms
17 offer “long distance” (generally as part of a package), average prices continue to
18 decline, and long distance is offered by a host of providers.⁷² Given this

⁷² The Consumer Price Index (“CPI”) for long-distance service has declined by close to 30 percent from 1998 to 2004 at a time when the overall CPI increased by about 15 percent. (Bureau of Labor Statistics). Moreover, there is a significant amount of fiber capacity in the long haul business as the telecommunications meltdown that hit the United States, and other countries, in the early 2000s was precipitated by a glut of fiber capacity that persists to this date. For example, according to research by TeleGeography in 2005 most intercity bandwidth is still unlit. They provide an example in the New York metropolitan area where 32 terrestrial carriers have a combined potential capacity of 818.2 Terabits per second but that only 22.6 Terabits per second, only 2.8 percent, of network bandwidth is actually lit. See TeleGeography, Company, Newsroom, “Most Intercity Bandwidth Still Unlit,” April 20, 2005 <<http://www.telegeography.com/press/release/2005-04-20.php>> (September 15, 2005).

1 competition, there is no merit to Dr. Roycroft's bald claim that the merger will
2 negatively impact the competition for long-distance customers.

3 **III. THE TRANSACTION WILL NOT HARM COMPETITION FOR**
4 **ENTERPRISE CUSTOMERS IN WASHINGTON**

5 **Q. WILL THE TRANSACTION HARM COMPETITION FOR ENTERPRISE**
6 **CUSTOMERS IN WASHINGTON?**

7 A. No. The merger of Verizon and MCI will not harm competition for enterprise
8 customers (defined as mid-sized and large business customers) in Washington for
9 several reasons. *First*, as I explained in my Direct Testimony (at 78–82),
10 enterprise customers are sophisticated purchasers of communications services that
11 typically employ competitive procurement practices (such as RFPs) and that can
12 purchase individual components of the integrated bundles of products and
13 services that they use from different service providers. This approach allows
14 different types of firms to compete for enterprise customers and ensures that
15 enterprise customers are able to purchase high-quality communications services at
16 competitive prices.

17 *Second*, as I also explained in my Direct Testimony (at 82–94 and
18 Exhibit WET-3), there are many competitors for enterprise customers including
19 traditional IXC, CLECs/DLECs, manufacturers (such as Lucent, Cisco, and
20 Nortel), systems integrators, and managed service providers (such as IBM, EDS,
21 and EMC), as well as major global telecom providers (such as BT, Deutsche

1 Telecom, and NTT). Cable, wireless, VoIP, and satellite providers also compete
2 for enterprise customers.

3 *Third*, Verizon and MCI are not major competitors for these customers. In fact,
4 an internal study of more than 800 instances where MCI bid on enterprise
5 contracts between October 1, 2004 and April 20, 2005 showed that Verizon was
6 not a bidder in more than 96 percent of them.⁷³

7 *Fourth*, enterprise customers generally buy services in national or global markets,
8 MCI's overlap with Verizon in Washington is extremely small, and its influence
9 on the prices of enterprise services is not a significant factor in Verizon's service
10 area in Washington. Specifically:

- 11 • As discussed in my Direct Testimony (at 55), the two companies
12 have overlapping fiber in only four of the 104 wire centers in
13 Verizon's Washington service area, and in those few wire centers
14 at least 11 other carriers have fiber facilities.
- 15 • MCI's uses its own fiber to serve only 13 end-user buildings in
16 Verizon's area (all in the Seattle-Tacoma-Bellevue MSA), while
17 other CLECs have "lit" fiber in at least 247 buildings (the majority
18 of which also fall in the Seattle MSA).
- 19 • MCI's influence on prices for special access is minimal; that is, it
20 does not receive the largest discounts and it resells only a small
21 share of the special access it purchases from Verizon.

⁷³ See Ex Parte Letter from Verizon and MCI to FCC, WC Docket No. 05-75, p. 3 n.5, filed July 1, 2005.

1 **Q. WILL THE TRANSACTION BENEFIT ENTERPRISE CUSTOMERS?**

2 A. Yes. The transaction will enable Verizon and MCI together to offer more
3 complete service packages for enterprise customers. The two firms serve
4 essentially as complements rather than substitutes for each other with regard to
5 enterprise services. They compete to some extent for enterprise customers, but
6 they focus on different aspects of the enterprise market. Their networks, services,
7 and areas of expertise (engineering, sales, and customer support with respect to IP
8 networks and applications) have very little overlap. For instance, Verizon offers
9 wireless business services through its affiliate Verizon Wireless, while MCI has
10 no wireless presence. While Verizon has limited interLATA transmission
11 facilities, particularly in the western region of the U.S., MCI has a substantial
12 interstate and international transmission network, is a leading IP backbone
13 provider, and has considerable expertise at IP networking.⁷⁴

14 **Q. ABSENT THE MERGER, COULD VERIZON BECOME A VIABLE**
15 **COMPETITOR IN THE ENTERPRISE MARKET OUTSIDE ITS LOCAL**
16 **EXCHANGE OPERATING AREAS?**

17 A. Yes, but not in the immediate future. However, the salient issue is not whether
18 Verizon could eventually become a viable competitor in the enterprise market but
19 whether the transaction will enhance its ability to serve enterprise customers
20 without harming competition. My analysis of the transaction has shown that it
21 will.

1 **Q. WHAT DOES MR. WILSON CONCLUDE REGARDING THE**
2 **TRANSACTION’S EFFECT ON COMPETITION FOR SERVICES**
3 **PURCHASED BY ENTERPRISE CUSTOMERS?**

4 A. Mr. Wilson analyzes competition for what he (at 5) describes as two separate
5 business markets; that is, the “market” for business access lines, and the “market”
6 for special access services. With respect to business access lines, he (at 16-17)
7 concludes that “Verizon’s market power will increase in two wire centers ... and
8 Verizon’s market share will increase less than one percent.” With respect to
9 special access services, Mr. Wilson concludes that “Verizon will only gain market
10 power over 0.3 percent of all intrastate and interstate private lines and special
11 access lines as a result of the merger.”

12 **Q. WHAT DO MR. WILSON’S HHI CALCULATIONS IMPLY ABOUT**
13 **SERVICES USED BY ENTERPRISE CUSTOMERS?**

14 A. Although Mr. Wilson’s conclusions are based on incomplete HHI calculations,
15 accepting his HHI calculations and the underlying data on which they are based as
16 correct, they do not indicate that the transaction will harm competition in any of
17 the markets he defines. Specifically, the data used in Mr. Wilson’s analysis show
18 that Verizon has been losing substantial numbers of switched and end-user special
19 access lines in Washington. From December 2003 to December 2004, Mr.
20 Wilson’s Exhibit TLW-3HC shows that Verizon lost about **[BEGIN VERIZON**
21 **PROPRIETARY] ***** [END VERIZON PROPRIETARY]** voice-grade

⁷⁴ Verizon website, Domestic Telecom, at <http://investor.verizon.com/business/wireline.aspx>, accessed September 29, 2005 and Hoovers Fact Sheet, MCI, Inc.

1 equivalent business channels (which includes POTS, Centrex, DSO ISDN, and
2 DS1 ISDN PRI channels) and about [BEGIN VERIZON PROPRIETARY]
3 ***** [END VERIZON PROPRIETARY] end-user special access channels.
4 These represent losses of about [BEGIN VERIZON PROPRIETARY] *****
5 ** [END VERIZON PROPRIETARY] percent, respectively.

6 Furthermore, the acquisition does not raise any concerns for customers who
7 purchase business switched lines because, as Mr. Wilson (at 16) says: “MCI is
8 the [BEGIN MCI PROPRIETARY] ***** [END MCI
9 PROPRIETARY] CLEC, selling business local exchange services to [BEGIN
10 MCI PROPRIETARY] *****[END MCI PROPRIETARY] percent of
11 the lines.” Note also that, according to Mr. Wilson’s data, MCI’s “Multi-Line
12 Business Self Provisioned Lines” are only about 4 percent as large as CLEC
13 “Multi-Line Business Self Provisioned Lines.”⁷⁵ Since Verizon provides about
14 193,000⁷⁶ multiline business lines over its own facilities, MCI’s share of these
15 lines comes to only 1 percent.

16 **Q. DOES MR. WOOD PRESENT ANY EVIDENCE TO SUBSTANTIATE HIS**
17 **CLAIM THAT THE MERGER HARM COMPETITION FOR**
18 **ENTERPRISE CUSTOMERS?**

19 A. No. Mr. Wood does not present any evidence regarding the enterprise market.
20 Instead, Mr. Wood presents theoretical arguments of why he believes that

⁷⁵ See TLW-3HC, lines 49 and 50.

⁷⁶ FCC ARMIS Report 43-08, Table III, as of December 2004.

1 midsized businesses form a separate market and that the transaction will harm
2 competition for that “market.” Curiously, although Mr. Wood’s testimony
3 contains many sections in which he describes what he considers a proper merger
4 analysis, he does not conduct any meaningful analysis himself (let alone any
5 Washington-specific analysis) and bases his recommendations and conclusions
6 exclusively on his theoretical discussion. Moreover, Mr. Wood does not attempt
7 to evaluate the competitive significance of MCI alone, but lumps it together with
8 AT&T in order to make conclusions about the state of competition generally (e.g.,
9 at 50-52). Significantly, Mr. Wood’s correct observation (at 19) that MCI AT&T
10 and MCI have “managed to capture only a small fraction of the market”
11 contradicts his own claims (at 7) that MCI is “a major competitor of Verizon in
12 the market for mid-sized business services” and that the merger will “adversely
13 affect” customers.

14 Furthermore, Mr. Wood focuses his entire testimony on the competitive effects on
15 midsized customers, ignoring the mass market and enterprise market. Not only
16 does he define the markets differently than Verizon and MCI, he also defines
17 them differently than even the other intervenors. This fact makes it virtually
18 impossible to give any credence to Mr. Wood’s testimony. It must be discounted
19 as he does not provide this Commission with a full assessment of the merger, only
20 his perception of the impact on so-called midsized businesses as he defines them.

1 **Q. DOES DR. ROYCROFT PROPERLY ANALYZE THE EFFECT OF THE**
2 **MERGER ON ENTERPRISE CUSTOMERS?**

3 A. No. Dr. Roycroft (at 69) advocates that “customer class” should be treated as
4 separate markets and performs some concentration analyses on this “market.”
5 With respect to business customers, Dr. Roycroft groups all business lines,
6 whether provided to small, medium, or large businesses, into the same relevant
7 market. He then calculates pre- and post-merger HHIs on this market. Given the
8 incorrect market definition he employs and the incomplete and outdated data he
9 relies on, Dr. Roycroft’s HHI calculations do not reflect either transaction’s effect
10 on competition for either the mass market or the enterprise-market segments.

11 Specifically, his analysis shows the merger would increase the HHI from 4,083 to
12 4,197, or by a change of 114 points. However, a change of 114 is not an
13 automatic dismissal of a proposed merger. As discussed above, antitrust
14 authorities consider many other factors, besides HHIs, in their review of a merger
15 and have not blocked a number of mergers with HHIs well above the threshold in
16 the *Merger Guidelines*.

1 **A. The Intervenors’ Definitions of the Relevant *Geographic* Market Are**
2 **Too Narrow**

3 **Q. YOU TESTIFIED EARLIER THAT THE INTERVENORS’ DEFINITIONS**
4 **OF THE RELEVANT GEOGRAPHIC MASS MARKET ARE TOO**
5 **NARROW. HOW DOES THIS AFFECT THEIR ANALYSES OF THE**
6 **ENTERPRISE MARKET?**

7 A. Mr. Wilson’s and Dr. Roycroft’s definitions of the relevant geographic market for
8 enterprise customers are incorrect because they limit the parameters of the market
9 in a way that does not comport with the manner in which enterprise services are
10 bought and sold on a national (if not international) basis today. Mr. Wood (at 13)
11 defines the relevant geographic market for mid-sized businesses as “the individual
12 buildings, campuses and individual end user locations where an effective
13 substitute product would need to be present in order for a given customer to make
14 use of it.” Like Mr. Wilson’s and Dr. Roycroft’s definitions, this definition fails
15 to account for the fact that competition for enterprise customers takes place in
16 national and global markets. Granular market definitions, such as those proposed
17 by the intervenors, have been rejected in other states. For instance, the California
18 Attorney General (at 26) noted: “We reject the concept of a ‘granular’ market at
19 the individual building or route level and analyze the competitive effects at the
20 MSA level.”⁷⁷

⁷⁷ In the Matter of the Joint Application of SBC Communications Inc. and AT&T Corp. for Authorization to Transfer Control of AT&T Communications of California before the California Public Utilities Commission of the State of California, Application No. 05-02-027, “Opinion of the Attorney General on Competitive Effects of Proposed Merger of SBC Communications, Inc., and AT&T Corp.,” February 28, 2005, released July 22, 2005, (“California Attorney General”).

1 **B. The Intervenor’s Definitions of the Relevant *Product* Market Are**
2 **Overly Narrow**

3 **Q. HOW DID THE INTERVENORS DEFINE THE RELEVANT PRODUCT**
4 **MARKET FOR PURPOSES OF ANALYZING THE TRANSACTION’S**
5 **EFFECT ON COMPETITION FOR ENTERPRISE CUSTOMERS?**

6 A. Mr. Wilson finds that there is a separate market for business customers, while Mr.
7 Wood (at 14) finds that “the mid-sized business market is a discrete, relevant
8 market.” Dr. Roycroft advocates separate markets by “customer class,” but never
9 really discusses what he believes that means; of greater concern, Dr. Roycroft
10 analyzes competition for all “business lines” as if they were all part of the same
11 market. Importantly, all three intervenors incorrectly exclude intermodal
12 competitors from their analyses.

13 **Q. DO YOU AGREE WITH THE INTERVENORS’ DEFINITION OF THE**
14 **RELEVANT PRODUCT MARKET?**

15 A. No. As with their analyses of the transaction’s effect on mass market customers,
16 the intervenors’ analyses of competition for enterprise customers relies on overly
17 narrow definitions of the relevant product market. The *Merger Guidelines* focus
18 on demand substitution factors (i.e., possible customer responses). As the FCC
19 has noted, “demand substitutability identifies all of the products or services that
20 consumers view as substitutes for each other, in response to changes in price.”
21 Contrary to the intervenors’ view, there is no “*wireline voice*” market for
22 enterprise customers. Enterprise customers do not merely purchase business
23 lines; rather, they purchase a wide array of communications services, including

1 voice (domestic and international), data (Frame Relay, ATM, IP/VPN) that are
2 often carried together over the same high-capacity business lines, CPE, ancillary
3 services, and network integration services. Large enterprise and other commercial
4 and institutional customers now spend more on data and wireless services than
5 they spend on wireline voice services, and data and wireless are growing
6 considerably, while wireline voice spending is declining.⁷⁸ Enterprise customers
7 also obtain voice services through other technologies, such as VoIP, without
8 obtaining switched lines. Any analysis of competition for this customer segment,
9 therefore, must analyze the full array of services and facilities that large enterprise
10 customers and midsized businesses purchase and cannot focus solely on switched
11 wireline services.⁷⁹

12 The intervenors' calculations of HHIs based entirely on wireline data are not
13 probative of anything. By including but one product and only a small subset of all
14 enterprise service providers in the relevant product market they analyzed, the
15 intervenors ignored marketplace realities and fundamental economic principles
16 which hold that all substitutes and all providers of substitutes must be measured in
17 an analysis of a transaction's effect on competition.

⁷⁸ See Kneko Burney, InStat/MDR, Share of Wallet?: Telecom Trends and Expenditures in the US Business Market; Part One: US Enterprises (1,000+ Employees), August 2004, Table 7; Kneko Burney, InStat/MDR, Share of Wallet?: Telecom Trends and Expenditures in the US Business Market; Part Two: Mid-Sized Businesses (100-999 Employees), September 2004, Table 7.

⁷⁹ For these same reasons, Staff's prediction of HHIs after this transaction provides no meaningful data on the consequences of this transaction. See White Paper, p. 32. In addition, as explained above, Staff's

1 **Q. IS THERE A STAND-ALONE PRODUCT MARKET FOR MIDSIZED**
2 **BUSINESSES AS ADVOCATED BY MR. WOOD?**

3 A. No. Mr. Wood is simply wrong that mid-sized business customers using high-
4 capacity services should be regarded as a stand-alone product market. Once a
5 carrier has deployed network facilities to reach larger customers, the firm is
6 likely—as demonstrated by the historical pattern of CLEC entry and expansion—
7 to diversify from serving the large customers to serving smaller customers who
8 demand similar services. Moreover, the high-capacity services to which
9 Mr. Wood refers, whether they are special access services, high-capacity loops, or
10 high-capacity local transmission, are essentially point-to-point services that are
11 fundamentally the same for both large and mid-sized customers. Thus,
12 high-capacity services, including special access services, local loop services, or
13 local transmission services, are segments of an enterprise market and should be
14 considered in any analysis of an enterprise market. Indeed, one of Mr. Wood’s
15 clients, XO Communications, states on its website:

16 XO® Private Data Networking services deliver scalable transport
17 solutions to solve even your most complex network connectivity
18 problems. From XO VPN, an economical private network
19 application *for businesses of all sizes, to sophisticated Ethernet*
20 *solutions for our largest customers*, XO Private Data Networking
21 solutions let you:

- 22 • Use the latest technologies coupled with the strength of the
23 XO OC-192 Network to provide reliable and scalable high
24 bandwidth data connectivity

projection is based on a simple time series extrapolation that ignores technological trends and the expected growth of various alternatives.

- 1 • Select from the highest levels of security to ensure your
2 data’s integrity
- 3 • Enjoy all the benefits of working with XO, from proactive
4 24x7 network management to a single invoice for all your
5 voice and data services.

6 Whatever your private data networking needs, XO has you
7 covered.⁸⁰

8 Whether your business has one location in a single market or many
9 offices across the nation, XO makes it simple for you to buy local
10 services. That’s because XO offers standard product features
11 across all of our markets, along with standard product names and
12 functionality. Imagine that—local services available in over 70
13 markets nationwide from one supplier with one simple invoice.⁸¹

14 But putting aside the fact that there is no stand-alone market for mid-sized
15 business customers, there is no reason to conclude that the transaction will harm
16 these customers. MCI is not Verizon’s most important competitor for midsized
17 businesses since MCI’s primary focus has been on large businesses.⁸² One recent
18 survey of midsized businesses (defined as those with between 100 and 1,000
19 employees) showed that just 3.5 percent of them named MCI as a primary
20 communications provider.⁸³ By contrast, AT&T was named as a preferred

⁸⁰ XO, “XO® Private Data Networking.” <<http://www.xo.com/products/smallgrowing/data/index.html>> (August 17, 2005) emphasis added.

⁸¹ XO, “XO® Local Services.” <<http://www.xo.com/products/smallgrowing/voice/local/>> (August 17, 2005).

⁸² See Declaration of Ronald J. McMurtie, at ¶¶ 3-4, Attachment 12 filed at the FCC in WC Docket No. 05-75; and Declaration of Eric J. Bruno and Shelly Murphy at ¶ 58, Attachment 3 filed at the FCC in WC Docket No. 05-75.

⁸³ K. Burney, InStat/MDR, “Darwin Laughs: Exploring Broadband Preferences for Network and Managed Services in the US Business Market,” Part Two: US Mid-sized Businesses (100 to 999 Employees), December 2004, Table 27.

1 provider by 16.4 percent of those businesses. Furthermore, many national and
2 regional CLECs and DLECs specialize and compete actively for midsized
3 business customers. The merger will have an insignificant impact on competitive
4 options for midsized businesses and will not harm competition for customers in
5 this segment of the enterprise market.

6 **Q. WHEN DEFINING THE RELEVANT MARKET, DOES IT MATTER**
7 **WHETHER AN ENTERPRISE CUSTOMER PURCHASES SERVICES ON**
8 **A WHOLESALE OR RETAIL BASIS?**

9 A. No. The fact that some enterprise customers are carriers that purchase services on
10 a wholesale basis does not matter when determining whether these services
11 should be considered part of the relevant product market for enterprise services.
12 Whether the customer is a large retail establishment, a government institution, or
13 a wholesale provider, the basic demand and supply characteristics are similar
14 enough to warrant that they be grouped for analysis purposes.

15 On the demand side, customers who demand high-capacity services require DS1
16 level services and higher. These customers, whether retail establishments or
17 wholesale customers, such as interexchange carriers, have the same characteristics
18 as the enterprise customers; that is, they purchase through contracts, issue RFPs,
19 and are marketed to through direct-sales contacts.

20 On the supply side, midsized businesses are not geographically isolated from
21 larger or smaller businesses or residential customers. The networks, facilities, and

1 operations that existing competitors currently are using to serve larger customers
2 also can be used to serve mid-sized business customers if profitable conditions
3 arise (assuming they are not already being used to serve them). The networks
4 serving residential and small businesses and the networks serving large business
5 customers can be used to serve mid-sized businesses at low incremental cost in
6 pursuit of profitable opportunities. In fact, competitors attempt to serve as many
7 types of customers as they possibly can. For example, XO not only serves
8 business customers as described above, but it recently announced a “Wholesale
9 Local Voice services platform” that “now can help CLECs serving residential
10 customers transition off of the RBOCs’ UNE-P, and instead use central office and
11 transport services from XO to deliver telephone services.”⁸⁴ In addition,
12 according to its website:

13 XO understands that carriers and service providers need more than
14 just bandwidth to satisfy their customers. So along with the
15 generous bandwidth capabilities we offer, our products and
16 services—coupled with dedicated customer service and technical
17 support—make it possible for you to deliver what your customers
18 need.

19 XO is committed to serving the needs of emerging and established
20 carriers and service providers such as:

- 21 ▪ Competitive Local Exchange Carrier (CLEC)
- 22 ▪ Internet Service Provider (ISP)
- 23 ▪ Interexchange Carrier (IXC)
- 24 ▪ Incumbent Local Exchange Carrier (ILEC)

⁸⁴ Bernier, Paula, “XO Targets Residential-Focused CLECs Wanting to Move Off RBOC Facilities,”
XChange, August 29, 2005.

- 1 ▪ Non-Facility Based Reseller
- 2 ▪ Building Local Exchange Carrier (BLEC)
- 3 ▪ Cable TV Provider
- 4 ▪ Wireless Service Provider
- 5 ▪ VOIP Service Provider
- 6 ▪ Utility Telecom Division

7 This commitment, combined with our financial strength and vast
8 network, means you can rely on XO to provide the
9 communications solutions you need to stay competitive today...
10 and further down the road.

11 With assets that directly compete with those of the largest
12 telecommunications service providers, XO serves carriers and
13 service providers of various sizes. So no matter what your line of
14 business, or product or service requirements, XO can handle a
15 piece of your business...or all of it. We'll design a solution
16 specifically for you, evaluating and delivering exactly what you
17 need at a price you can afford. If it's speed to market you need,
18 XO can help you expand into new markets with little to no
19 additional effort or capital expense. That way, you can remain
20 focused on running your business and servicing your customers
21 instead of constructing networks.⁸⁵

22 **Q. MR. WOOD CLAIMS (AT 90) THAT “XO HAS SPENT CONSIDERABLE**
23 **RESOURCES IN DEVELOPING FIXED WIRELESS TECHNICAL**
24 **CAPABILITIES, BUT HAS NO EXISTING SERVICE OFFERINGS.”**
25 **HOW DO YOU RESPOND TO HIS CLAIM?**

26 A. In making this claim, Mr. Wood relies on selective excerpts from XO's 2004 10-
27 K and other statements. But a more thorough review of XO's SEC filings shows
28 that Mr. Wood is improperly attempting to minimize the extent of wireless

⁸⁵ XO, “XO® Carrier Services.” <<http://www.xo.com/products/carrier/index.html>> (August 17, 2005).

1 competition that his client provides. For example, according to XO's first quarter
2 2005 SEC Form 10-Q, at 12:

3 We have begun offering fixed broadband wireless backhaul
4 services to mobile wireless telecommunications carriers. In April
5 2005, we reached an agreement to provide fixed broadband
6 wireless services on a limited basis to one of the national mobile
7 wireless carriers. The Company will continue to pursue
8 opportunities to market and sell its fixed wireless solution to
9 mobile wireless carriers both for primary network connectivity and
10 redundancy.

11
12 Mr. Wood's statement (at 44) that although "XO has invested approximately one
13 billion dollars in the deployment of [fixed wireless]..., and while it has hopes of
14 utilizing this technology for commercial application in the future, it cannot
15 currently do so" is contradicted by XO's 2004 SEC Form 10-K. The 10-K states
16 (at 10) that wireless can be cost-effectively deployed today in selected markets,
17 including according to the accompanying map, parts of Washington state: The
18 following diagrams depict the physical components of our nationwide network.
19 There are additional maps located on our web site at www.xo.com. The map
20 below depicts our intercity fiber network and the geographic zones in which we
21 are licensed to deploy fixed wireless services, as well as ***the local markets in***
22 ***which we are currently able to cost-effectively deploy fixed wireless solutions.***
23 (Emphasis added.)

1 **Q. MR. WOOD CLAIMS (AT 15) THAT “THERE ARE NO INTERMODAL**
2 **COMPETITIVE ALTERNATIVES TO THE[] WIRELINE CIRCUITS”**
3 **USED BY MID-SIZED BUSINESS CUSTOMERS. DO YOU AGREE?**

4 A. No, and the evidence proves he is incorrect. In a declaration filed by Verizon
5 with the FCC, Verizon highlighted a December 2003 study indicating that 29
6 percent of midsized businesses (100–999 employees) and 23 percent of small
7 businesses (5-99 employees) were currently using fixed wireless for some
8 high-capacity services. Further, 44 percent of midsized businesses and 35 percent
9 of small businesses planned to use fixed wireless within the next 12 months.⁸⁶ In
10 fact, one of Mr. Wood’s clients in this proceeding, XO Communications, is an
11 example. XO Communications provides fixed-wireless retail and wholesale
12 services.⁸⁷ On its website, XO discusses “Wireless Spectrum,” stating:

13 XO owns the largest footprint of U.S. fixed wireless spectrum,
14 which covers 95% of the population in the top 30 U.S. cities. The
15 frequency of the spectrum is 27 GHz-32 GHz and allows XO to
16 offer broadband access services using Local-to-Multipoint
17 Distribution System (LMDS) technology. This enables XO to
18 bypass the Regional Bell Operating Companies (RBOCs) and
19 provide direct access to our end customers.⁸⁸

⁸⁶ See *In the Matter of: Special Access Rates for Price Cap Local Exchange Carriers*, Declaration of Quintin Lew, WC Docket No. 05-25, June 9, 2005, Verizon Attachment D ¶ 27 (“Declaration of Question Lew”).

⁸⁷ *Id.*

⁸⁸ XO, XO@ Network, “Network Details” <<http://www.xo.com/about/network/details.html>> (September 16, 2005).

1 An accompanying map on the website shows that these wireless facilities cover
2 parts of Washington, including Seattle, Portland, and much of Verizon’s service
3 territory.⁸⁹

4 Contrary to Mr. Woods’ and the other witnesses’ claims, cable companies,
5 wireless providers, Internet services providers, and VoIP providers are serving
6 enterprise customers of all sizes, including mid-sized business customers.

7 **1. Cable Companies Are Serving Enterprise Customers**

8 **Q. SHOULD CABLE COMPANIES BE INCLUDED IN THE RELEVANT**
9 **PRODUCT MARKET?**

10 A. Yes. I explained earlier that cable companies offer significant mass market
11 competition with respect to services offered to residential and small businesses.
12 However, it is critical to keep in mind that cable companies serve larger
13 businesses as well. One study found that almost two years ago 41 percent of
14 “enterprises” and 32 percent of “middle market” businesses were using cable
15 modem service in their main offices, most often in the form of “full T1 service.”⁹⁰
16 Furthermore, cable MSOs are devoting increasing levels of resources and
17 products targeted specifically towards business customers. Time Warner and Cox
18 offer two examples. According to one recent report, “Time Warner Cable sells 13

⁸⁹ See XO, XO® Network, “Network Details,”
<http://www.xo.com/about/network/maps/wireless_large.html> (September 16, 2005).

⁹⁰ Kneko Burney et al, In-Stat/MDR, Cash Cows Say “Bye-Bye”: The Future of Private Line Services in US Businesses, December 2003, p. 19, Table 9.

1 different varieties of commercial service packages....The company now has about
2 350 salespeople specifically devoted to commercial services and boasts average
3 annual revenue growth of 50 percent over the last five years.”⁹¹ Jim Robbins,
4 Cox CEO, reports a similar story. According to Mr. Robbins, Cox “now offers
5 business service in 22 markets...[and its] Business Services’ annual revenue
6 jumped from \$263.7 million in 2002 to \$395.6 million by 2004. ‘They’re doing
7 25% a year, and they would be doing more than that if we would give them more
8 money.”⁹² Also, Comcast, the largest cable provider in WA, provides broadband
9 services to small businesses, businesses with telecommuters and businesses in the
10 hospitality industry.⁹³

11 Industry analysts support this view, but with a broader perspective. According to
12 Chuck Kaplan, chief operating officer of the research firm Narad Networks Inc.,
13 “We see activity from every MSO in the commercial sectors...cable can steal
14 20% of the telcos’ T-1 high-speed Internet market ‘uncontested,’ and ‘after that,
15 who knows?’”⁹⁴ Targeting businesses seems to be working for these carriers.
16 “According to Kagan Research, cable’s estimated commercial-services revenue

⁹¹ Michael Grebb, “Making Business Big Business; Ops Want to Give Telcos a Run for their Commercial-Services Business,” *Multichannel News*, June 27, 2005.

⁹² *Id.*

⁹³ See Comcast Business Products <<http://www.comcast.com/Benefits/CHSIDetails/Slot4PageOne.asp>> (October 3, 2005).

⁹⁴ See Michael Grebb, “Making Business Big Business; Ops Want to Give Telcos a Run for their Commercial-Services Business,” *Multichannel News*, June 27, 2005.

1 grew from \$682.6 million in 2003 to \$1.2 billion in 2004. Kagan estimates that
2 2005 revenue will reach about \$2 billion.”⁹⁵

3 **Q. MR. WOOD (AT 46) CLAIMS THAT THE CABLE COMPANIES**
4 **CANNOT TARGET CUSTOMERS HAVING MULTIPLE FRANCHISE**
5 **TERRITORIES AND THAT CABLE BANDWIDTH IS TOO SMALL TO**
6 **REPLACE MULTIPLE DS1S. DO YOU AGREE WITH HIS**
7 **ASSESSMENT?**

8 A. No. Contrary to Mr. Wood’s claims, it is clear that cable companies are targeting
9 business of all sizes, including midsized business customers. *First*, executives
10 from Comcast, Cox, Time Warner Cable, and Cablevision have announced plans
11 to expand in the commercial sector, and each of these companies has a portion of
12 its website devoted to services for business customers.⁹⁶ *Second*, the
13 consolidation of cable serving areas – a process through which cable companies
14 swap franchise areas in order to achieve the largest possible set of contiguous
15 customers – reduces this concern for regional midsized business customers.
16 *Third*, Mr. Wood’s definition of a midsized market appears to be quite elastic,
17 including multi-location businesses requiring multiple DS1s at particular
18 locations. Even if cable companies were unable to provide geographic reach or
19 sufficient bandwidth for some of these customers, there are sufficient other
20 alternatives for these customers among suppliers of services to the enterprise
21 market.

⁹⁵ *Id.*

1 **2. Enterprise Customers Rely On Broadband And Internet**
2 **Services**

3 **Q. ARE INTERNET SERVICES SUBSTITUTES FOR WIRELINE**
4 **SERVICES?**

5 A. Yes, the evidence that I have presented shows that enterprise customers regard
6 Internet services as substitutes for wireline services. They use these services by
7 installing IP PBXs in their networks and purchasing IP telephones or by
8 subscribing to hosted IP telephony service, also called IP Centrex, in which the
9 VoIP call control and management resides in the service provider's network.

10 Indeed, it can hardly be disputed that email has become a mainstream substitute
11 for voice calls in the office. Some companies have taken this a step further and
12 are now adopting instant messaging as a form of communication:

13 Many instant messaging vendors have released enterprise versions
14 of their products that add benefits alongside message logging.
15 IBM's Lotus division sells the SameTime instant messaging
16 server. Microsoft has the Live Communications Server, which
17 enables employees to message each other while optionally
18 messaging users on public instant messaging networks.⁹⁷

⁹⁶ See In the Matter of Special Access Rates for Price Cap Local Exchange Carriers, Comments of Verizon, WC Docket 05-25, June 13, 2005, pp. 28-31.

⁹⁷ Danny Bradbury, "Boardrooms make room for chat rooms: A Calgary-based energy trading floor puts instant messaging technology to work," Canada's *National Post*, Financial Post: Tech Post, April 29, 2005.

1 3. **Wireless Providers Compete With Wireline Providers to Serve**
2 **Enterprise Customers**

3 **Q. DO YOU AGREE WITH MR. WOOD THAT WIRELESS SERVICE IS**
4 **NOT A COMPETITIVE ALTERNATIVE TO WIRELINE SERVICE FOR**
5 **ENTERPRISE CUSTOMERS?**

6 A. No. In making such a statement, Mr. Wood suggests (at 41-42) that 250
7 individual wireless phones are not a substitute for a wireline telephone system
8 serving 250 lines. But a recent agreement between Sprint and Ford Motor
9 Company in Detroit shows how far off the mark Mr. Wood is in making that
10 claim. In that transaction, Sprint entered into a contract with Ford to replace
11 **8,000** of SBC's fixed lines with Sprint's wireless service.⁹⁸ This is a good
12 example of an important trend occurring among business customers, where
13 businesses seek the kind of flexibility that wireless service can offer in the form of
14 mobility. While Ford is an enterprise customer, all types of business customers
15 are increasingly viewing wireless service as an alternative to wireline service.

16 Mr. Wood is simply ignoring the many ways that wireless substitution takes place
17 for midsized business customers. Wireless providers now offer a variety of plans
18 designed to meet the needs of such customers, and, obviously, in businesses
19 where mobility is important, wireless service is especially attractive when
20 compared with wireline service. Some providers, such as Sprint/Nextel, offer

⁹⁸ See Computerworld Staff, "Ford, Sprint agree to wireless deal," *Computerworld*, January 2, 2005
<<http://www.computerworld.com.au/index.php/id:93373959:relcomp:1>> (September 15, 2005).

1 customized solutions by industry.⁹⁹ Sprint also offers its business customers the
2 “PCS Integrated Office,” which allows a user to retrieve contacts or messages
3 from a wireless phone the same way as from a wireline phone.¹⁰⁰ Nextel
4 introduced its Push-To-Talk feature and sold it aggressively to business
5 customers. Cingular also offers services designed to appeal to business customers
6 (e.g., it offers a multiline business discount that grows with the size of the
7 business). Cingular and Sprint both offer businesses plans that allow employees
8 of corporate subscribers to share minutes. Other major carriers offer similar
9 incentives to business customers.

10 According to the Yankee Group: “As carriers attempt to deliver wireless data
11 solutions to businesses, they will both compete and partner with traditional IT
12 suppliers.”¹⁰¹ Sixty-three percent of enterprises have formal relationships with
13 multiple wireless carriers and almost one-third (29 percent) have formal
14 relationships with three or more carriers. On average, enterprises have
15 relationships with 2.23 carriers.¹⁰²

⁹⁹ See Sprint, “University Wireless Access” <<http://www.sprint.com/business/products/products/universityWirelessAccess.jsp>, (7 April 2005), see also Sprint, “Financial Services and Insurance” <http://www.nextel.com/about/enterprise/wbs/finance_insurance.shtml> (April 7,2005).

¹⁰⁰ See Sprint, “PCS Integrated Office” <http://www.sprint.com/business/products/products/pcsIntegratedOffice_enterprise.jsp> (March 21, 2005).

¹⁰¹ Roberta Wiggins and Eugene Signorini, Competition Among U.S. Wireless Carriers Intensifies in the Pursuit of Enterprise Customers, The Yankee Group, April 2004, p. 1.

¹⁰² *Id.*, p. 7.

1 At the same time, business customers are centralizing control of spending on
2 wireless voice and data services and looking to bundled service pricing as a
3 means to reduce costs.¹⁰³ Ten percent of the customer base for voice and data
4 services provided by Cingular Wireless is comprised of business accounts.¹⁰⁴ The
5 Yankee Group reports that business subscribers make up approximately
6 70 percent of Nextel's base pre-merger.¹⁰⁵ Individuals who use T-Mobile services
7 to address their business communication needs are estimated to account for up to
8 20 percent of the total installed base of T-Mobile USA.¹⁰⁶

9 **4. VoIP Providers Are Increasingly Serving Enterprise**
10 **Customers**

11 **Q. SHOULD VOIP COMPETITION BE INCLUDED IN THE RELEVANT**
12 **MARKET?**

13 A. Yes. VoIP is on the rise in the enterprise segment. In-Stat/MDR reported that
14 "the percentage of companies using VoIP grew from 3 percent in 2003 to 12
15 percent in 2004."¹⁰⁷ In-Stat also found that "more than 30% of firms, even those
16 with less than 100 employees, are interested in and, more importantly, planning to

¹⁰³ *Id.*, p. 2.

¹⁰⁴ *Id.*, p. 8.

¹⁰⁵ *Id.*, p. 9.

¹⁰⁶ *Id.*, p. 11.

¹⁰⁷ Ed Sutherland, Enterprise VoIP Adoption? Gradual but Rapid, Say Experts," Wi-Fi Planet, March 28, 2005 <<http://www.wi-fiplanet.com/voip/article.php/3493136>> (September 15, 2005).

1 adopt IP telephony solutions in 2005.”¹⁰⁸ The penetration rates are even higher
2 for enterprise customers: “Fifty two percent of enterprises are deploying some
3 form of VoIP, 46 percent have deployment plans, and only two percent do not
4 plan to use VoIP, according to a survey by the testing and monitoring firm
5 Empirix.”¹⁰⁹ According to Bank of America:

6 The operational cost savings are there with VoIP. The voice world
7 has always been complex and harder to manage than the data
8 world. Convergence gives us the ability to look at our whole
9 technology entity. It will let us be more predictive of failures and
10 other network events, which gives us the ability to keep system
11 availability at a certain level.¹¹⁰

12 **Q. MR. WOOD (AT 37–39) ARGUES THAT VOIP IS NOT A SUBSTITUTE**
13 **AVAILABLE TO ENTERPRISE CUSTOMERS BECAUSE, HE CLAIMS,**
14 **IT IS ONLY A SWITCHING APPLICATION PROVIDED OVER A**
15 **BROADBAND CONNECTION. IS HE CORRECT?**

16 A. No. Mr. Wood overlooks the fact that VoIP service is an integral part of network
17 packages sold to enterprise customers. The fact that such customers have
18 broadband access means that additional suppliers, even ones without traditional
19 long-haul wireline networks, can compete in the enterprise market using Internet
20 backbone services for transport.

¹⁰⁸ “Businesses Likely to Embrace IP Telephony in 2005, But Are Needs Being Met?” In-Stat Press Release, February 14, 2005 <<http://www.instat.com/press.asp?ID=1244&sku=IN0401365EM>> (September 15, 2005).

¹⁰⁹ “Fifty Two Percent of Enterprise Already Deploy VoIP: Survey,” Information Week, March 7, 2005 <<http://informationweek.networkingpipeline.com/voicedata/60406845>> (September 15, 2005).

¹¹⁰ Phil Hochmuth, “Bank of America’s ‘Higher Standards’ for VoIP,” NetworkWorld, December 20, 2004 <<http://www.networkworld.com/news/2004/122004bofa.html>> (September 15, 2005).

1 **Q. MR. WOOD (AT 40) CLAIMS THAT THERE IS NO EVIDENCE THAT**
2 **VOIP PROVIDERS WILL BEGIN TO SUPPLY MIDSIZED BUSINESS**
3 **CUSTOMERS WITHIN ONE YEAR IN RESPONSE TO A “SMALL BUT**
4 **SIGNIFICANT NON-TRANSITORY INCREASE IN PRICE.” DO YOU**
5 **AGREE?**

6 A. No, Mr. Wood is wrong. There is no evidence that VoIP providers seek only
7 large customers and ignore smaller ones. Further, even today, midsized business
8 customers typically have access to broadband facilities.

9 **5. Emerging Technologies: Wi-Fi, WiMAX, BPL, Satellite**
10 **Broadband**

11 **Q. SHOULD EMERGING TECHNOLOGIES BE INCLUDED IN THE**
12 **RELEVANT MARKET?**

13 A. Yes. Emerging technologies have taken root in the business world. A number of
14 CLECs are now using fixed wireless technologies to expand their networks, and
15 companies like AirBand and TowerStream are supplying fixed-wireless
16 broadband access to wholesale and retail customers. The intervenors took no
17 account of this competition in their analyses.

18 **Q. HOW ARE INTERMODAL ALTERNATIVES FOR DS1 AND HIGHER**
19 **BIT RATE LOOPS DEVELOPING?**

20 A. Intermodal alternatives for DS1 and higher bit rate loops (e.g., DS3) are growing.
21 According to Infonetics, WiMAX equipment sales which totaled \$16.4 million in
22 2004 is expected to increase to \$124.5 million in 2005, a growth of over

1 650 percent.¹¹¹ Vonage recently announced a partnership with TowerStream to
2 offer VoIP over TowerStream’s “pre-WiMAX” fixed wireless broadband
3 network. In exchange, TowerStream promises to offer businesses “a true
4 alternative to the existing phone companies for both voice and broadband in one
5 offering.”¹¹² AT&T, Intel, Sprint, and Fujitsu Microelectronics are all currently
6 developing WiMAX technology for deployment in 2006.¹¹³ Airspan Networks
7 Inc. has launched “self-installable” WiMAX products for indoor use by
8 residential or small businesses and for outdoor professional use by larger
9 enterprises. Moreover, Airspan currently offers AS.MAX, the “industry’s most
10 complete range of WiMAX Product portfolio consisting of four different Base
11 Station solutions and a range of indoor and outdoor CPEs.”¹¹⁴ Time Warner
12 Telecom is looking at WiMAX as a way to expand its range within its 44
13 metropolitan markets, where it has fiber connections to 5,280 buildings.
14 BellSouth has officially launched its pre-WiMAX wireless broadband service in
15 Athens, Georgia, and plans to offer the service in select Florida cities later this

¹¹¹ See Michael Hall, “Report: WiMAX Off to Strong Sales Start,” *Wi-Fi Planet*, July 28, 2005
<<http://www.wi-fiplanet.com/news/article.php/3523806>> (September 16, 2005).

¹¹² Vonage Press Release, “TowerStream and Vonage Form Alliance to Offer VoIP Over Fixed Wireless
Broadband,” August 2, 2005 <http://www.vonage.com/corporate/press_index.php?PR=2005_08_02_0>
(September 16, 2005).

¹¹³ AT&T plans to test trial WiMAX on two corporate customers in New Jersey in May and plans for full
deployment in 2006. See Wireless Watch, “AT&T to deploy WiMax in 2006,” *The Register*, October 18,
2004 <http://www.theregister.co.uk/2004/10/18/sbc_moves_to_converge/> (17 September 2005). Intel’s
Broadband Wireless Group plans to integrate WiMAX into laptops by 2006 and into handsets by 2007.
See Rupert Goodwins, “Intel plots path of WiMax,” *CNET News.com*, September 7, 2005
<http://news.com.com/Intel+plots+path+of+WiMax/2100-1006_3-5349359.html> (September 17, 2005).

¹¹⁴ See Airspan Products <http://www.airspan.com/products_sub.htm> (September 30, 2005).

1 year.¹¹⁵ And as I mentioned earlier, Speakeasy has already been offering
2 WiMAX to business customers in Seattle, the first of several cities the company
3 plans to provide this service.

4 **C. Bidding for Enterprise Customers Will Remain Highly Competitive**

5 **Q. WILL BIDDING FOR ENTERPRISE CUSTOMERS REMAIN**
6 **COMPETITIVE?**

7 A. Yes. The transaction will not have an adverse effect on bidding for enterprise
8 customers in Washington. As explained in my Direct Testimony (at 81), there are
9 many bidders for enterprise services other than MCI, including not only wireline
10 carriers but also systems integrators.¹¹⁶ Verizon is rarely, if ever, a competing
11 prime bidder against MCI on large enterprise contracts.¹¹⁷ As a result, the loss of

¹¹⁵ See WiMaxxed News, “Qwest Initiates Wimax Trials,” July 28, 2005
<http://www.wimaxxed.com/wimaxxed_news/qwest_initiates.html> (August 10, 2005); *see also*
Information Week, “BellSouth Officially Launches Pre-WiMax Service”, August 4, 2005
<<http://www.informationweek.com/story/showArticle.jhtml?articleID=167100889>> (August 10, 2005).

¹¹⁶ Systems Integrator IBM Global Services won a contract with Lloyd’s bank to provide converged voice and data systems, including 70,000 VoIP phones, Networking Pipeline, *IBM Inks \$971 Million Deal To Overhaul Lloyd’s Financial Network*, December 7, 2004; Affinia Group Inc., a global supplier of automotive components signed Electronic Data Systems to provide support for all IT and communications services, *Affinia Group Signs IT Services Agreement with EDS*, December 8, 2004, Press Release.

¹¹⁷ “Verizon’s counsel has undertaken an analysis of competition between MCI and Verizon on RFPs [dated October 1, 2004 until about May 1, 2005] to document the fact that Verizon and MCI rarely compete head-to-head on the various contracts for which the companies bid. ... Preliminary analysis indicates that a very small minority of bids involved head-to-head competition between the two companies. ... [T]he upper-bound estimate demonstrates ... that Verizon and MCI have different strengths and therefore rarely bid on the same RFP and even more rarely bid to provide the same services under a particular RFP.” “Attachment 5: Reply Declaration of Eric J. Bruno, Kathy Koelle, Veronica Pellizzi, and Judy K. Verses,” *In the Matter of Verizon Communications and MCI, Inc. Applications for Approval of Transfer of Control before the Federal Communications Commission, WC Docket NO. 05-75*, May 23, 2005, (“Bruno et al FCC Reply”), ¶ 22.

1 a single bidder should not be of concern to the Commission. In claiming
2 otherwise, Mr. Wood presents a hypothetical bidding example that pits one
3 competitive bidder against the ILEC (post-merger). However, his example is
4 completely speculative and unrealistic.¹¹⁸ It posits post-merger enterprise
5 competition being reduced from three to two competitors and, in doing so,
6 disregards extensive evidence demonstrating that there are numerous other
7 competitors bidding for enterprise contracts. The California Attorney General's
8 opinion (at 21) regarding the SBC/AT&T transaction also confirms that enterprise
9 services have been competitive for a long time and have become more so.

10 **D. The Transaction Will Not Harm Competition For Wholesale Fiber**
11 **Facilities**

12 **Q. MR. WOOD (AT 21) CLAIMS THAT MCI IS THE SECOND OR THIRD**
13 **LARGEST ALTERNATIVE SUPPLIER OF HIGH-CAPACITY FIBER**
14 **FACILITIES SUCH THAT THE MERGER “FAR EXCEEDS THE**
15 **GUIDELINE STANDARD OF MARKET CONCENTRATION BY ANY**
16 **MEASURE, AND THUS IS NOW SUBJECT TO CAREFUL,**
17 **ADDITIONAL SCRUTINY BY DOJ AND THE FCC.” HOW DO YOU**
18 **RESPOND?**

19 A. Mr. Woods is wrong here. As a threshold matter, the DOJ and FCC are indeed
20 reviewing the transaction but it is by no means clear that they have subjected it to
21 “additional scrutiny,” as Mr. Wood suggests. These agencies will render their
22 decisions in due course and Mr. Wood is wrong to attempt to characterize their
23 deliberations in any way. But, if Mr. Wood is correct, this only reaffirms that this

¹¹⁸ Wood Declaration, pp. 67-69.

1 issue is a federal one—because the special access at issue is regulated by the FCC
2 and not this Commission—and that it is not relevant for the Commission’s
3 consideration of the merger.

4 In any event, as I have explained, special access services are provided by many
5 firms that are not required to provide any information about their customers, such
6 as how many they have, and the locations where they have deployed fiber. As
7 Verizon explained in the FCC’s special access proceeding, available information
8 on fiber deployment and the number of lit buildings likely substantially
9 understates actual competition.¹¹⁹

10 **Q. IS MCI A UNIQUE COMPETITIVE FORCE IN PROVIDING SPECIAL**
11 **ACCESS TO BUSINESS CUSTOMERS?**

12 A. No and neither Mr. Wood nor any other witness has provided any data that
13 demonstrate otherwise. The data that the Parties have provided, on the other
14 hand, show that MCI does not provide substantial competition for special access
15 services. It serves only a small fraction of the buildings served by CLECs in
16 Verizon’s area of Washington with its own facilities. Specifically:

- 17 • MCI serves only 13 end-user buildings with its own fiber in
18 Verizon’s service area;
- 19 • Of the 13 end-user buildings, 3 are also served by competitive
20 fiber;

¹¹⁹ See, Before the Federal Communications Commission, In the Matter of: Special Access Rates for Price Cap Local Exchange Carriers, WC Docket No. 05-25, “Comments of Verizon,” June 13, 2005, p. 3.

- 1 • Of the 10 that are not, all are within 0.1 miles of competitive fiber;
- 2 • Additionally, for those 10, there are an average 2.8 competing
- 3 providers within 0.05 miles, 4.9 within 0.1 miles, and 5.9 within
- 4 0.25 miles; and
- 5 • CLECs have lit 247 buildings with 464 connections for an average
- 6 of 1.9 carriers per building.

7 MCI resells only a fraction of the special access circuits it purchases from
8 Verizon (i.e., only about one third of DS-1 circuits and less than ten percent of
9 DS-3 circuits that MCI purchases from Verizon are used by MCI to provide
10 circuits to other carriers). Page 1 of Exhibit WET-5C shows that other
11 competitors have more extensive fiber routes in Verizon's area of the Seattle
12 Tacoma Bellevue region.

13 It should also be noted that MCI is not receiving the largest discounts for special
14 access services purchased from Verizon. In fact, at least two other carriers
15 receive larger discounts and MCI's average price per DS 1 channel termination is
16 approximately the same as the average Verizon charges in Washington to all
17 carriers in the state.

18

1 **Q. THE MAP ON PAGE 1 OF EXHIBIT WET5C ALSO SEEMS TO SHOW**
2 **THAT MCI'S FACILITIES EXTEND INTO QWEST'S SERVICE**
3 **TERRITORY IN THE SEATTLE AREA. WHAT DO YOU INFER FROM**
4 **THAT INFORMATION?**

5 A. Although it is somewhat difficult to see it because other carriers also serve
6 Qwests' part of the Seattle area, once the merger is completed it will give Verizon
7 immediate access to local facilities in Qwest's area. This can be seen more
8 clearly on pages 2 and 3 of Exhibit WET-5C.

9 **Q. MR. WOOD (AT 83) SUGGESTS THAT AFTER MCI MERGES WITH**
10 **VERIZON SPECIAL ACCESS PRICES WILL INCREASE. IS HE**
11 **CORRECT?**

12 A. No. There are at least two reasons to conclude that this transaction will not cause
13 increases in prices for special access services. *First*, Verizon and MCI have made
14 clear that they intend to honor existing contracts and the corresponding contract
15 rate levels. To the extent special access services are provided pursuant to federal
16 tariff, the FCC has granted pricing flexibility for those services in those MSAs
17 where there is sufficient competition to grant pricing flexibility. In such MSAs,
18 competition will protect against the kinds of increased prices about which the
19 intervenors profess concern. Otherwise, the prices are regulated by the FCC and
20 are protected in that way.

21 *Second*, as discussed, continued competition from other facilities-based
22 competitors in virtually all of the areas where MCI has deployed local fiber in
23 Washington will constrain the merged company from being able to raise prices.

1 **Q. SHOULD A NEW YORK PUBLIC SERVICE COMMISSION STAFF**
2 **WHITE PAPER INFLUENCE THIS PROCEEDING?**

3 A. No, Mr. Wood’s (at 58-59) reliance on a NYPSC Staff White Paper as support for
4 his claim that the transaction will harm competition in the enterprise segment is
5 entirely misplaced. Mr. Wood (at 9-10) specifically cites a HHI calculation in
6 that paper and asserts that its measures of concentration for various markets for
7 business services in New York provide lower bounds for the concentration of
8 those markets in Washington. But the White Paper has no bearing on this
9 transaction in Washington and its HHI calculations are flawed for many of the
10 same reasons the HHI calculations done by the intervenors here are flawed. As a
11 threshold matter, the White Paper to which Mr. Wood alludes sets forth what the
12 NYPSC Staff called “preliminary analyses” and “tentative conclusions” regarding
13 the transaction’s possible effects on competition in New York. By its own
14 admission, the NYPSC Staff did not have complete information with which to
15 conduct its analyses. Verizon and MCI responded to the White Paper and
16 included information that points out the many flaws in the NYPSC Staff’s
17 preliminary analyses and tentative conclusions. In short, the White Paper is *not* a
18 NYPSC determination and amounts to nothing more than one party’s preliminary,
19 and fatally flawed, views on the transaction.

20 Beyond that, for reasons I discussed previously it is incorrect to rely exclusively
21 on historical HHI analyses to reach conclusions about a merger’s effect on
22 competition, as the White Paper does and as Mr. Wood is evidently advocating.

1 Moreover, the White Paper calculates HHIs for various groups of services and
2 customers and makes no effort to ensure that any such group is a relevant market.
3 The NYPSC Staff, in fact, acknowledges in several places that their calculated
4 HHIs probably overstate market concentration because they omitted relevant
5 competitors and relevant technologies.¹²⁰

6 Further, NYPSC Staff's calculations for wholesale transport services rely on
7 self-reported data from a fifteen-month old proceeding, in which 17 carriers
8 submitted data, despite the presence of 20 additional carriers on maps submitted
9 to the New York Public Service Commission by Verizon.¹²¹

10 Further still, relevant carrier services were omitted from the study. For example,
11 carriers providing transport between wire centers A & B and B & C were not
12 counted as serving the A & C route, and carriers serving buildings near Verizon
13 or MCI lit buildings were not counted as competing for those buildings' services.

14 Finally, there are numerous other problems with the NYPSC Staff's White Paper,
15 all of which are discussed in Verizon's Comments and Reply Comments on the
16 White Paper, submitted on August 5 and August 21, respectively.

¹²⁰ See NYPSC Staff White Paper, pp. 22, 25.

¹²¹ See Verizon White Paper Response, pp. 40-41, Exhibit 2. The HHI calculations regarding the other market segments that the NYPSC Staff analyzed were also materially flawed, however, to the extent Mr. Wood does not rely on them in his Washington analysis, I do not discuss the flaws in those calculations here. Petitioners' response to the White Paper was filed with the NYPSC and is available at <http://www.dps.state.ny.us/VZ-Comments-Redacted.pdf>.

1 **Q. MR. WOOD (AT 26) MAINTAINS THAT BARRIERS TO ENTERING**
2 **WHAT HE CALLS THE SPECIAL ACCESS MARKET ARE HIGH. DO**
3 **YOU AGREE?**

4 A. No. The fact that at least 20 different firms have deployed fiber in the areas
5 served by Verizon in Washington, and more than 100 different providers have
6 deployed competitive fiber in Verizon's serving areas around the country show
7 that entry barriers are not prohibitively high.¹²² Nevertheless, even assuming that
8 barriers to entry are high, this merger will have no material impact on barriers to
9 entering the market and deploying fiber.

10 **Q. HAS MR. WOOD'S CLIENT, XO, DEPLOYED FIBER IN**
11 **WASHINGTON?**

12 A. Yes. According to a map on XO's website, the company offers its XOptions®
13 Flex bundled service to various cities included in its metropolitan area markets,
14 including Seattle, Tacoma, and Spokane.¹²³ The website also states that the
15 service is:

16 Designed for both growing businesses and those with critical
17 Internet, data and voice applications, [and] XOptions Flex delivers
18 it all on a single bill - from one vendor with one invoice for one
19 flat rate* XOptions Flex utilizes our national local network -
20 something the RBOC's can't offer - so all voice calls travel

¹²² See Direct Testimony of William E. Taylor, July 8, 2005, Table 1, p. 54, Updated Version. *See also* Verizon MCI Public Interest Statement filed before the FCC in WC Docket No. 05-75, p. 3

¹²³ See XOptions® Flex Market Availability <http://www.xo.com/about/network/maps/flex_large.html> (September 30, 2005).

1 securely over a dedicated IP connection rather than the public
2 Internet.¹²⁴

3 XO's website also reveals that:

4 Metro Area Networks (MANs) allow XO to control customer
5 traffic and ensure an efficient data transfer to the Inter-city
6 network. metro-area networks are composed of enough metro
7 fiber-optic cable to circle the globe more than 45 times –
8 1.16 million metro fiber miles throughout 40 major US cities,
9 including the largest 30 cities in the United States.

10 Unlike non-facilities-based providers or long-haul providers, XO,
11 with its MANs, has access to the end customer. The MANs enable
12 XO to offer such dynamic products as Ethernet and SONET
13 services that carry data faster and more efficiently than our
14 competition.¹²⁵

15 **Q. ARE ECONOMIC CONDITIONS FOR HIGH-CAPACITY AND**
16 **TRANSPORT SERVICES FAVORABLE TO THE DEVELOPMENT OF**
17 **COMPETITION?**

18 A. Absolutely. As I have stated, these services have been highly competitive for
19 quite some time. High-capacity, point-to-point services were one of the first
20 telecommunications services to have been provided through competition,
21 beginning with MCI's point-to-point long-haul services in the 1950s. The first
22 examples of competition in the local exchange market began in the 1980s, with
23 point-to-point connections between large users of telecommunications services
24 and their IXC's point of presence. This is not surprising as demand conditions for
25 these services are quite favorable for the development of competition.

¹²⁴ See XOptions® Flex, Overview
<<http://www.xo.com/products/smallgrowing/integrated/flex/index.html>> (September 30, 2005).

1 **Q. ARE THE PRICES OF VERIZON’S SPECIAL ACCESS SERVICES**
2 **RELEVANT TO THIS TRANSACTION IN ANY WAY?**

3 A. No. Mr. Wood (at 50) claims that Verizon’s special access prices are
4 “exorbitant,” proving that Verizon is a dominant provider of high-capacity
5 building access service. Putting aside for now whether his claim is correct (and,
6 as I will show, it is not), the issue here is not whether Verizon is the dominant
7 provider of special access services in Washington but whether the transaction will
8 somehow increase Verizon’s ability to raise special access prices above
9 competitive levels. The evidence I have presented shows the transaction will not
10 have that effect because, among other things, MCI is not a big provider of these
11 services and does not exert any influence on Verizon’s Special Access prices.
12 Moreover, interstate special access prices are regulated by the FCC, not state
13 commissions and, since the merger has no impact on the regulation or provision
14 of these services, the price of these services is not relevant to this Commission’s
15 review of the merger. In fact, the FCC is presently reviewing the issue of special
16 access pricing. There is no reason (or legal basis) for the Commission to attempt
17 to address interstate FCC special access pricing policies in this State proceeding.
18 In any event, Mr. Wood’s claim that Verizon’s special access prices are
19 “exorbitant” is utterly without merit. That claim is based on his assertion that
20 rates of return calculated using ARMIS data have increased recently. However,

¹²⁵ See XO@ Network, Network Details <<http://www.xo.com/about/network/details.html>>
(September 30, 2005).

1 ARMIS rates of return cannot explain economic rates of return, and only
2 economic rates of return can be used to reach any meaningful conclusions about
3 supra-competitive prices. Moreover, data submitted in the FCC’s special access
4 NPRM has shown that average revenue per circuit for special access services in
5 general and for DS1 and DS3 services individually have fallen steadily.¹²⁶

6 **Q. WHY CAN’T ARMIS RATES OF RETURN BE USED TO EVALUATE**
7 **COMPETITIVE CONDITIONS FOR SPECIAL ACCESS SERVICES?**

8 A. Verizon is a multiproduct, multistate firm that provides regulated and unregulated
9 services over a single network using an integrated regional management structure.
10 For such firms, economists have long understood that fully distributed costs
11 allocated to particular services in particular jurisdictions are not economic costs
12 and should not be used for ratemaking purposes or for assessing the degree of
13 competitiveness in a market. That conclusion stems from the impossibility—not
14 just in practice but in principle—of assigning fixed common costs and network
15 investment in any economically meaningful way to particular services in
16 particular jurisdictions. As Professor Kahn and I explained:

17 The regulatory expedient of assigning fixed costs among categories
18 (*e.g.*, between regulated and unregulated or between interstate and
19 intrastate jurisdictions), in proportion to variable costs or demand
20 volumes, though “reasonable,” is not cost-causative, and the
21 resulting costs are not economic costs. It might be equally
22 reasonable to allocate railroad overhead costs to services by

¹²⁶ Declaration of William E. Taylor (WC Docket No. 05-25, RM No. 10593) on behalf of Verizon, June 9, 2005, ¶ 6.

1 volume, weight or value, but shippers of feathers, coal and
2 diamonds would undoubtedly disagree about the results.¹²⁷

3 **Q. MR. WOOD (AT 77–80) ATTEMPTS TO APPROXIMATE THE**
4 **FINANCIAL IMPACT OF THE MERGER ON SPECIAL ACCESS**
5 **RATES. WOULD YOU PLEASE SUMMARIZE HIS APPROACH?**

6 A. His main argument is that MCI resells special access service because it allegedly
7 receives large volume discounts from Verizon. He maintains that MCI would
8 have an incentive to resell the spare capacity at average variable cost (plus a
9 profit), thus undercutting the ILEC's special access price. He further maintains
10 that MCI and AT&T can make a credible threat to bypass the ILEC and can
11 obtain good discounts that work to the benefit of other similarly situated carriers.

12 **Q. IS THERE ANY FACTUAL OR ECONOMIC VALIDITY TO HIS**
13 **ARGUMENT?**

14 A. No. As previously discussed, Verizon offers special access discounts primarily
15 based on term commitments, which are available to any carrier. Thus, the
16 discounts MCI receives are available to other carriers.

17 **Q. ARE UNES SUBSTITUTES FOR WIRELINE SERVICES?**

18 A. Most definitely, but that is not the issue here. Mr. Wood states that UNEs should
19 not be treated as substitutes for any competitive wholesale alternative to
20 Verizon's special access services because of the uncertainty of FCC policy.

¹²⁷ Before the FCC, In the Matter of Unbundled Access to Network Elements, Review of the Section 251 Unbundling Obligations of Incumbent Local Exchange Carriers, WC Docket No. 04-313, CC Docket No. 01-338, Reply Declaration of William E. Taylor, October 15, 2004., at 6.

1 Whatever the FCC policy is with respect to certain UNEs, the relevant point is
2 that the merger would have no impact on such policy. Mr. Wood is simply
3 speculating about the course of future federal policy on UNEs. He also ignores
4 the relevant point that if a UNE is removed, it means that the FCC has determined
5 that CLECs are no longer impaired in the sense that continued provision of ILEC
6 UNEs at TELRIC rates is no longer necessary to promote competition.

7 **E. The Transaction Does Not Raise Competitive Concerns Regarding**
8 **Provision of Internet Backbone Services**

9 **Q. DO YOU AGREE WITH MR. GILLAN THAT THE TRANSACTION WILL**
10 **CREATE AN INTERNET BACKBONE PROVIDER WITH THE ABILITY**
11 **AND INCENTIVE TO DISCRIMINATE AGAINST OTHER IP-BASED**
12 **SERVICE PROVIDERS?**

13 A. No. The thrust of Mr. Gillan’s argument is that the merged entity will have the
14 ability to discriminate against other retail VoIP providers and ISPs because, in
15 combination, the Verizon and SBC mergers will create two “mega-RBOCs” that
16 “could redefine the tiering structure,” and that with greater use of IP
17 communications for voice and video transmission, “the danger of discrimination
18 in IP networks is much larger going forward...”¹²⁸ Whatever the merged
19 company’s incentives might be after the transaction is completed, it will not have
20 the ability to act on them.

¹²⁸ See Response Testimony of Joseph Gillan, on behalf of Covad Communications Co. September 9, 2005, pp. 42–45.

1 *First*, at least five other companies operate Internet backbones comparable to
2 MCI's; and Verizon's Internet backbone is small and geographically limited in
3 comparison. Thus, MCI's and Verizon's combined Internet backbones facilities
4 would be comparable in size to those owned by several other companies and
5 would continue to face intense competition from many other smaller Internet
6 backbone providers. *Second*, in the face of such competition, and the economics
7 of the Internet, the merged company would not be able to benefit from any effort
8 to discriminate; thus, it would not even have the incentive to do so. *Third*, as
9 even Mr. Gillan acknowledges, there are five other Tier-1 Internet backbone
10 providers (i.e., Sprint, AT&T, Level 3, Qwest, and Global Crossing) that will
11 continue to compete with the post-merger company.

12 **Q. DO THE TRENDS IN MCI'S RELATIVE POSITION IN THE PROVISION**
13 **OF INTERNET BACKBONE SERVICES SHOW THAT COMPETITION**
14 **IS INTENSE FOR THOSE SERVICES?**

15 A. Yes. Data on MCI's share of Internet traffic, revenues, or other measures of
16 concentration all show that MCI's share has been declining as others have
17 expanded into the Internet backbone business. While publicly available
18 information does not permit precise calculations of the individual shares of all
19 providers, all available data show that MCI is a much less significant provider of
20 backbone-based services than it was five years ago.¹²⁹ Although there are
21 problems in developing reliable revenue data, available information indicates that

¹²⁹ Kende Decl. ¶ 2.

1 the combined revenue of MCI and Verizon from backbone operations in 2003 was
2 less than the revenues of the company with the highest backbone earnings.¹³⁰

3 Data provided by RHK likewise indicate that MCI is not the largest Internet
4 connectivity provider, but rather is one of seven providers with traffic shares that
5 range between 5 percent and 12.5 percent.¹³¹

6 MCI's share, as measured by the number of Autonomous System ("AS")
7 connections, has also declined substantially, from 22 percent in 2000 to 12
8 percent in 2004.¹³² The same data also show a substantial decrease in
9 concentration for the market as a whole: the combined share of the top five
10 backbone providers fell to 39 percent of all connections in 2004, a decrease from
11 58 percent in 2000.¹³³ The number of connections for each of the top four
12 providers also declined from 2003 to 2004.¹³⁴

13 The Verizon/MCI transaction will not alter substantially MCI's position.
14 Verizon's backbone is small by any measure. It is concentrated primarily in the
15 Northeast and MidAtlantic regions and does not extend to any foreign countries.
16 Measured by AS connections, Verizon's backbone does not even rank in the top

¹³⁰ *Id.* ¶ 4.

¹³¹ *Id.* ¶ 5.

¹³² See *Global Internet Geography*, Teleography Research, 2004 (the "*Teleography Report*"), Figure 4. As noted therein, AS connections are at best a proxy for market share, as they only show who is "likely" to have the most customers, and this measure does not weight connections for traffic flows or revenues.

¹³³ Kende Decl. ¶ 7.

¹³⁴ *Id.*

1 50.¹³⁵ Thus, the proposed transaction would not significantly increase the relative
2 size or competitive significance of MCI’s backbone, and Mr. Gillan’s professed
3 concerns regarding increased concentration and competitive harm in the provision
4 of Internet backbone services are unfounded.

5 **Q. DO PRICING DATA REVEAL COMPETITION HAS BEEN INTENSE**
6 **FOR INTERNET BACKBONE SERVICES?**

7 A. Yes. The steep decline of Internet bandwidth prices provides additional evidence
8 of the strong competition for Internet connectivity services. From 2Q2003–
9 2Q2004, transit prices in major U.S. cities fell 55 percent. Thus, one study
10 reported that the “Internet backbone is beset with ruinous price declines and brutal
11 competition.”¹³⁶

12 **Q. PLEASE ADDRESS MR. GILLAN’S CONTENTIONS ABOUT**
13 **VERIZON’S ABILITY TO DISCRIMINATE.**

14 A. Mr. Gillan states (at 45) that “Multi-Protocol Label Switching (“MPLS”), enables
15 a network operator to prioritize packets, providing superior performance over the
16 ordinary method of routing.” Then, he argues that “it is important that Verizon
17 not have the opportunity to act on its incentives to discriminate.” Thus, he

¹³⁵ Kende Decl. ¶ 8.

¹³⁶ *Teleography Report*, Executive Summary. Moreover, ongoing technological changes have led to substitutes that make consumers less dependent on Internet transport services. For example, customers increasingly use caching to store frequently accessed content at locations closer to the end user, thereby reducing the amount of traffic that flows over Internet backbones. Developments in network architecture and routing schemes also have given Internet connectivity providers additional flexibility to choose from a variety of physical paths to the same destination, and these providers use this technology to avoid potential delays by rerouting traffic away from points of congestion. See Michael D. Pelcovits & Vinton G. Cerf, *Economics of the Internet*, 2 Emerging Telecommunications Networks; The International Handbook of Telecommunications Economics (Gary Madden ed., 2003). See Kende Decl. ¶ 6.

1 suggests Verizon could somehow “prioritize packets” so as to favor its own retail
2 customers over other companies’ retail customers that use MCI’s internet
3 backbone. Mr. Gillan’s discrimination worries are entirely misplaced. A recent
4 study by Professor Nicholas Economides concludes that efforts to degrade service
5 to rival Internet backbone providers (“IBPs”) would not succeed because they
6 would harm the IBP that attempted do so.¹³⁷ More specifically, Professor
7 Economides concluded that:

8 Degradation of interconnections [provided to competitors] ...
9 sacrifices the benefits of network externalities. It would result
10 in a loss of value in the large IBP’s Internet businesses because
11 it would limit its customers’ ability to interact with the rest of
12 the Internet. A rational business would not take this step.
13 ***Because there are limited switching costs and negligible***
14 ***barriers to expansion and entry, transport customers would***
15 ***switch to other networks or new entrants rather than tolerate***
16 ***a degraded interconnection and alienate their customers.***
17 ***Networks monitor the quality of service aggressively on***
18 ***behalf of their end users and web-site customers, and they are***
19 ***able to identify and react to problems that would result from***
20 ***deliberate degradation of interconnection.***¹³⁸

21 Applying Professor Economides’ conclusions here, it is clear that there is no basis
22 for Mr. Gillan’s concern that, once Verizon controls MCI’s backbone network,
23 new state regulatory rules will be needed to assure that Verizon does not
24 discriminate.

¹³⁷ Nicholas Economides, *The Economics of the Internet Backbone*, , NYU Law and Economics Research Paper No. 04-033, and NET Institute Working Paper No. 04-23, June 2005, p. 40 (the “*Economides Study*”).

¹³⁸ *Economides Study*, p. 40 (emphasis supplied).

1 Indeed, putting aside the jurisdictional issues discussed in Dr. Danner’s
2 testimony, such a strategy would be doomed to failure as Dr. Economides
3 explained in the context of interconnection. Any effort to assign lower priority to
4 a competitor’s content or traffic would fail because: (1) “networks monitor quality
5 of service aggressively on behalf of their end users and website customers”; (2)
6 “the limited switching costs and negligible barriers to expansion and entry” would
7 result in lost traffic on Verizon’s Internet backbone, as competitors switch their
8 traffic to other IBP’s networks; and (3) the quality of service perceived by
9 Verizon’s customers would not be just a function of what happens to their
10 outgoing packets but also—and probably more so given how the Internet is used
11 to gain access to information and entertainment—by what happens to their
12 incoming packets. If many of their incoming packets are originated by non-
13 Verizon customers, then Verizon’s own customers would feel as if they were
14 getting poor service *from Verizon*. That would defeat Verizon’s purported
15 strategy.

16 Mr. Gillan’s concerns are also refuted by Professor Economides’ conclusion that:

17 Since users demand universal connectivity on the Internet, no
18 network, however large, can afford not to offer universal
19 connectivity. Therefore, no network would decide to degrade
20 connections with the rest of the Internet networks unless the
21 degrading network was certain that all ISPs not connected to it
22 would immediately react to the degradation by instantaneously
23 switching to the degrading network. This instantaneous
24 switching is extremely unlikely to happen. Instead, many ISPs
25 would reduce rather than increase use of a network that is
26 degrading the quality of interconnections for a significant
27 amount of Internet traffic. And, as long as there are ISPs who

1 have not switched to the degrading network, all customers of
2 the degrading network suffer. Each one of these customers of
3 the degrading network is receiving connectivity significantly
4 below his expectations of universal connectivity, and is now
5 willing to pay less for it. Thus, the loss in value from
6 degradation is comparable on both sides of the degraded
7 interconnections, and can in fact be higher for the larger
8 network. This means that a large network can only harm its
9 rivals by harming itself by just as much or more.¹³⁹

10 **F. Expansion Of Unbundling Obligations Is Not Justified By The Merger**

11 **Q. DOES THE FCC’S ACTIONS IN ITS TRIENNIAL REVIEW IMPACT**
12 **THIS TRANSACTION?**

13 A. No. Mr. Wood (at 50) refers to the FCC’s Triennial Review process and claims it
14 creates “extreme regulatory uncertainty.” He (at 56) further claims that
15 post-merger, “the non-impairment showings already made under the TRRO
16 [would be] largely based on a phantom competitive presence.” This Commission
17 should ignore these claims for at least two reasons. *First*, this proceeding is not
18 the proper forum to revisit the FCC’s UNE policies or to ponder how they might
19 affect competitors in the future. The merger will have no impact on the rules
20 governing UNE impairment. Whatever the federal rules are, they will remain in
21 place and be unaffected by the merger.

22 *Second*, both the FCC’s UNE impairment rules and its special access flexibility
23 rules rely entirely upon collocation activity by competitors. For example, for
24 special access, the greater the collocation activity, the greater the flexibility

¹³⁹ *Economides Study*, pp. 39-40 (emphasis in original).

1 obtained by the carrier. However, evaluating competition based solely on
2 collocation activity is a very conservative approach because it ignores intermodal
3 competition and other competition from wireline noncollocated firms.

4 **Q. SHOULD THE MERGER BE CONTINGENT ON VERIZON MAKING**
5 **CERTAIN COMMITMENTS WITH REGARD TO UNES?**

6 A. No. The intervenors propose that approval of the merger be conditioned on
7 Verizon’s agreement to make “voluntary” commitments to expand its provision of
8 unbundled network elements beyond that mandated by the Telecommunications
9 Act of 1996 or the FCC. Some intervenors further request that Verizon be forced
10 to modify existing interconnection agreements.¹⁴⁰ The Commission should reject
11 these recommended conditions for several reasons. As a threshold matter, such
12 proposals go far beyond the legitimate bounds of this proceeding, which should
13 be narrowly focused on any incremental harm that the transaction might cause. In
14 addition, expanding the mandatory provision of network elements at TELRIC
15 prices is anticompetitive—not procompetitive—when the elements in question
16 can be obtained from market sources. As Justice Breyer reminds us,

17 Increased sharing by itself does not automatically mean increased
18 competition. It is in the unshared, not in the shared, portions of the
19 enterprise that meaningful competition would likely emerge.
20 Rules that force firms to share every resource or element of a
21 business would create, not competition, but pervasive regulation,
22 for the regulators, not the marketplace, would set the relevant
23 terms.¹⁴¹

¹⁴⁰ See for instance, Response Testimony of Don Wood at 85-86

¹⁴¹ *AT&T v. Iowa Utils. Bd.*, 525 U.S., p. 429 (Breyer, J., concurring in part and dissenting in part).

1 Finally, Mr. Wood (at 82-85) imagines that the FCC based its unbundling rules in
2 its *TRRO* decision “on the supposition that MCI (and AT&T) would compete with
3 each other to provide wholesale services on routes where UNEs are eliminated”
4 and that “[a]s part of the FCC’s misplaced assumption that the two largest CLECs
5 would continue to contribute to the development a robust wholesale market, the
6 TRRO placed a cap of 10 on the number DS1 unbundled loops and dedicated
7 transport circuits that could be ordered to a building or on a particular route.” Mr.
8 Wood presents no proof that the FCC, in fact, relied on the assumption that MCI,
9 AT&T, or any other CLEC operating in Washington or elsewhere would continue
10 to provide wholesale services on routes where UNEs are eliminated. Indeed, to
11 the extent that the FCC expressly ruled that the unbundling rules would be
12 adjusted based on a “one-way ratchet,” it appears that the FCC contemplated the
13 possibility that some of the competitors whose facilities were considered in the
14 elimination of UNEs might one day cease to provide wholesale services for
15 whatever reason. Nonetheless, the FCC concluded that once adjusted, no further
16 adjustments would be required. Any modifications to FCC decisions are within
17 the province of the FCC.

18 * * *

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

20 A. Yes.