Exhibit JFF-1T

BEFORE THE WASHINGTON STATE UTILITIES AND TRANSPORTATION COMMISSION

In the Matter of the Petition of	
) DOCKET NO. UT-033044
QWEST CORPORATION)
To Initiate a Mass-Market Switching)
And Dedicated Transport Case)
Pursuant to the Triennial Review)
Order)

DIRECT TESTIMONY

OF

JOHN F. FINNEGAN

ON BEHALF OF

AT&T COMMUNICATIONS OF THE PACIFIC NORTHWEST, INC., AT&T LOCAL SERVICES ON BEHALF OF TCG SEATTLE, AND TCG OREGON (COLLECTIVELY "AT&T")

POLICY AND INTRODUCTION

December 22, 2003

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1		I. <u>INTRODUCTION OF WITNESS</u>
2	Q.	WHAT IS YOUR NAME AND BUSINESS ADDRESS?
3	A.	My name is John F. Finnegan. My business address is 1875 Lawrence Street,
4		Room 1525, Denver, Colorado 80202.
5	Q.	WHAT ARE YOUR PRESENT RESPONSIBILITIES AND
6		BACKGROUND?
7	A.	My education and relevant work experience are as follows. I have a B.S. in
8		Engineering from the Rutgers College of Engineering and an M.B.A. from the
9		University of Denver. I have worked for AT&T for over 20 years. After
10		graduating from Rutgers, I spent the next two years with Combustion Engineering
11		in Valley Forge, PA as a Project Engineer. In 1983, I joined AT&T as a
12		purchased product engineer. Over the next 12 years, I spent time with AT&T in a
13		variety of engineering, quality management, sales and marketing positions.
14		Almost half of that time was spent leading a supplier quality management
15		organization.
16		In 1995, I joined AT&T's New Markets Development Organization and was one
17		of the first employees in AT&T's Western Region to explore the opportunities
18		associated with providing local exchange services. In 1996, I began in my current
19		position of Senior Policy Witness. As a Senior Policy Witness I am responsible
20		for developing and advocating AT&T's position on a wide range of issues.

1		During Qwest's attempt to obtain Section 271 relief, I concentrated my work
2		efforts on collaborating with Qwest, CLECs and state regulators on understanding
3		and evaluating Qwest's operational support system ("OSS") and developing
4		performance measurements supporting those OSS. Since the issuance of the
5		Triennial Review Order, I have been concentrating my efforts on the cross over
6		point, market definition and trigger issues that are relevant to this testimony and
7		the batch hot cut process,.
8		I was AT&T's representative in the Arizona and the Regional Oversight
9		Committee's ("ROC") OSS tests since their inception. I am a frequent panelist on
10		ROC OSS and Triennial Review Order discussions, and have testified in
11		proceedings in Kansas, Iowa, Minnesota, Arizona, Montana, Wyoming, Utah,
12		Idaho, Colorado, Washington, North Dakota, South Dakota, Nebraska, Oregon,
13		and New Mexico.
14	Q.	WHAT IS THE PURPOSE OF YOUR TESTIMONY?
15	A.	I am here today to provide the Commission with an introduction to the FCC's
16		Triennial Review Order ("TRO"), and to provide the policy framework
17		supporting the need for continued availability of mass market switching at
18		TELRIC prices, as part of the unbundled network element platform ("UNE-P").
19		My testimony is divided into five (5) sections: first, an introduction to and
20		explanation of the TRO; second, a discussion of the public interest benefits of
21		UNE-P; third, an analysis of geographic markets, or "impairment evaluation

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1		zones," and the process of defining these zones for TRO purposes; fourth, an
2		examination of factors necessary in determining the so-called "cross-over point"
3		used to decide when it makes economic sense for a competitive local exchange
4		carrier ("CLEC") to serve a multi-line plain old telephone service ("POTS")
5		customer using a DS1 based service; and fifth, an explanation of the "triggers"
6		analysis required under the TRO.
7		II. <u>THE TRIENNIAL REVIEW ORDER</u>
8	Q.	WHAT IS THE BACKGROUND BEHIND THE FCC's TRIENNIAL
9		REVIEW ORDER?
10	A.	The Triennial Review Order ¹ was issued by the Federal Communications
11		Commission ("FCC") on September 2, 2003. The TRO became effective on
12		October 2, 2003, and contemplates several state proceedings that are to be
13		completed within nine months. Specifically, the FCC's Order contemplates that
14		separate analyses for mass market switching, high capacity loops and high
15		capacity transport will be completed by July 2, 2004. Additionally, the state must

¹ In the Matter of Review of the Section 251 Unbundling Obligations of Incumbent Local Exchange Carriers, Implementation of the Local Competition Provisions of the Telecommunications Act of 1996, and Deployment of Wireline Services Offering Advanced Telecommunications Capability, CC Docket Nos. 01-338, 96-98 & 98-147, Report and Order and Order on Remand and Further Notice of Proposed Rulemaking, FCC 03-36 (rel. Aug. 21, 2003) ("Triennial Review Order" or "TRO").

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1	Q.	IN THE TRO, WHAT FINDINGS OR CONCLUSIONS DID THE FCC
2		REACH WITH RESPECT TO MASS MARKET SWITCHING?
3	A.	The FCC has made a national finding that CLECs are impaired in their ability to
4		offer service to mass market customers without access to unbundled switching. ²
5		The FCC's national finding is based on the operational and economic barriers to
6		entry relating to the "hot cut" process, which is necessary to connect mass market
7		customers' loops to CLEC switches. ³ These impediments are unique to CLECs
8		and are not faced by the ILECs themselves. But beyond the disadvantages created
9		by hot cuts per se, the FCC also recognized that CLECs face additional costs to
10		extend their customers' loops from collocations in the incumbent LECs'
11		("ILECs") serving offices to distant CLEC switches. ⁴ These include the costs of:
12		(1) collocation, (2) digital loop carrier ("DLC") and related transmission
13		equipment needed to prepare CLEC customers' traffic for efficient transport to
14		their switches, and (3) transport facilities needed to carry such traffic.
15		Collectively, these costs (plus the costs associated with hot cuts) are referred to as
16		the CLECs' "backhaul penalty", because they represent costs that only CLECs
17		must bear in order to provide service to mass market customers. ⁵

² TRO, ¶ 459.
³ TRO, ¶ 476.
⁴ TRO, ¶ 476.
⁵ TRO, ¶ 476. These matters are described in detail in the accompanying testimony of Robert

1	Q.	HOW DO THESE FCC FINDINGS AFFECT THIS COMMISSION?
2	A.	In light of these FCC findings, this Commission has been charged with the duty of
3		determining whether there is a factual basis to overturn the national finding of
4		impairment in any specific market within the State. In that investigation, the
5		operative question will be whether an efficient CLEC seeking to enter and serve
6		the mass market could overcome the existing operational and economic barriers to
7		entry if it does not have access to unbundled local circuit switching and UNE-P.
8	Q.	WHAT IS THE PROCESS TO BE FOLLOWED IN MAKING THIS
9		DETERMINATION?
10	A.	In order to adjudicate Qwest's challenge to the FCC's national finding of
11		impairment, the Commission must establish the appropriate market definitions in
12		the state. To do so, the Commission must: (1) apply the factors laid out in the
13		TRO to define the relevant geographic markets in the state and (2) establish the
14		appropriate line "crossover" between customers in the mass market, who are
15		economically served by only voice grade (or "DS0") loops, and customers in the
16		enterprise market, who can reasonably be served by DS1 level loops. Once these
17		market parameters are defined, the Commission must determine whether CLECs
18		are impaired in the absence of UNE switching in each market.
19	Q.	HOW IS SUCH IMPAIRMENT TO BE DETERMINED?
20	A.	The FCC has established two methods to determine whether there is impairment,
21		<i>i.e.</i> , an actual usage test, called a "trigger analysis," and a potential deployment

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1	test. Both impairment tests, however, are intended to answer the exact same
2	question: whether mass market customers in the defined markets will be able to
3	obtain competitive services from multiple suppliers. Thus, the determination
4	under either type of test should be identical for any defined market.
5	Procedurally, the Commission must first review any evidence of actual CLEC
6	usage of switching from providers other than the ILEC to serve mass market
7	customers. This is known as the "trigger" analysis. If the evidence shows there is
8	little or no CLEC usage of switching used to serve mass market customers from
9	other than the ILEC (i.e. the FCC-defined "triggers" are not met for a market), the
10	Commission must then (if requested) review the evidence regarding potential
11	usage of switching from other than the ILEC to serve mass market customers,
12	including evidence regarding CLEC switch usage and operational and economic
13	impairment. If the Commission finds, based on its review of all such evidence,
14	that the ILEC has failed to demonstrate that CLECs would not be impaired
15	without access to unbundled mass market switching, the Commission must then
16	determine whether "rolling access" to unbundled switching would cure any and
17	all impairment. If it does not, then unbundled local switching remains available
18	as an unbundled element at TELRIC rates. In addition, because the FCC found
19	that the hot cut process is a significant source of both operational and economic

1		impairment, it has asked state commissions to establish a batch hot cut process ⁶
2		and set a TELRIC rate for loops provisioned using that new process. These issues
3		are all intertwined, and must be addressed based on the entire record that is
4		developed through the course of the Commission's proceeding.
5	Q.	WHAT ARE SOME OF THE ISSUES SURROUNDING A
6		"GEOGRAPHIC" MARKET DEFINITION?
7	A.	Recognizing that state commissions are in a superior position to gather and assess
8		the data and information necessary to define geographic markets at a granular
9		level, the FCC delegated the task of defining geographic markets to the state
10		commissions. ⁷
11		Defining the geographic market applicable to the impairment analysis is
12		necessarily a dynamic and fact-intensive inquiry. There is no uniform
13		methodology for defining geographic markets, but the FCC did direct state
14		commissions to consider many different factors, including: ⁸
15 16		• "variation in competitors' ability to target and serve specific markets economically and efficiently using currently available technologies;"
17 18		• whether a CLEC with a switch serving some existing customers is "capable of serving" other areas; ⁹
19		• variation in costs and revenue opportunities in different areas;

⁶ Alternatively, a state commission may make detailed findings that a batch hot cut process is not necessary to support competition in a specific market. ⁷ TRO ¶ 495. ⁸ See TRO ¶¶ 495-496. ⁹ TRO, fn 1552. See also TRO ¶508.

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1 2 3 4		 variations in line densities and other factors that may affect the scale and scope economies associated with switch deployment; "the capabilities of wire centers to provide adequate collocation space and handle large numbers of hot cuts"; and
5 6		• any other "variation in factors affecting competitors' ability to serve each group of customers."
7		In applying these factors, state commissions must adopt a framework that it will
8		apply to all of its impairment analysis.
9	Q.	HOW SHOULD THE COMMISSION DEFINE THE BOUNDARY OR
10		"CROSSOVER" POINT BETWEEN MASS MARKET CUSTOMERS AND
11		ENTERPRISE CUSTOMERS?
12	A.	The Commission must also decide the "crossover" point at which multi-line DS0
13		customers are to be treated as part of the enterprise market. ¹⁰ The FCC suggests,
14		and AT&T agrees, that the appropriate way to establish this threshold is "the point
15		where it makes economic sense for a multi-line customer to be served via a DS1
16		loop." ¹¹ Because the costs for DS0 and DS1 loops vary within states and these
17		costs have a significant impact on the crossover analysis, the Commission may
18		choose to make a "crossover" determination for each geographic market it
19		defines.
20		In an earlier decision, the FCC assumed, on the basis of extremely limited
21		information, that such a cutoff would be four DS0 lines for customer locations in

¹⁰ *TRO* ¶ 497 & n.1376. ¹¹ *TRO* ¶ 497.

1		density zone 1 of the top 50 MSAs. ¹² In the TRO, the FCC left that presumptive
2		rule in place while state commissions make these determinations. However, the
3		order provides that state commissions may establish a higher cutoff based upon
4		evidence presented in the state impairment proceedings. ¹³ Based on my analysis,
5		found below in section V, I conclude the threshold here in Washington should be
6		approximately twelve (12) lines.
7	Q.	WHAT IS THE SO-CALLED "TRIGGER" ANALYSIS, AND HOW DOES
8		IT RELATE TO ACTUAL DEPLOYMENT OF FACILITIES?
9	A.	The FCC has established two triggers a self-provisioning trigger and a
10		competitive wholesale facilities trigger for states to apply in evaluating
11		impairment in specific markets. The purpose of the mass market switching
12		triggers is to allow a state commission to determine whether actual experience in
13		a specifically defined geographic market establishes that CLECs in that market
14		have been able to overcome the operational and economic barriers the FCC found
15		in making its national finding of impairment. ¹⁴ In general terms, the
16		self-provisioning trigger is met if three or more unaffiliated competing carriers
17		are actively serving mass-market customers with their own local switches in the
18		subject market. ¹⁵ The <i>wholesale facilities trigger</i> is satisfied if two or more
19		competing providers, unaffiliated with each other or the ILEC, are using their own

 $^{^{12}}$ TRO ¶ 430 (citing UNE Remand Order). In Washington, this affects the Seattle-Bellevue-Everett MSA 13 TRO ¶ 497. 14 TRO, ¶¶ 498, 501, 504. 15 TRO ¶ 501.

1	switches to actively provide wholesale local switching service to CLECs, and
2	those CLECs are providing service to mass market customers in the specified
3	market. ¹⁶ The wholesale providers must also be operationally ready and willing
4	to provide wholesale switching to all CLECs in the designated market. ¹⁷
5	Although the FCC found that there was little evidence that wholesale alternatives
6	are generally available at this time, it established this trigger "in the expectation
7	such alternatives may well develop in the future." ¹⁸
8	Some of the key aspects of a trigger review will be to determine whether the
9	"shorthand" evidence reviewed in connection with the test demonstrates that the
10	carriers identified as trigger candidates "are currently offering and able to provide
11	service, and are likely to continue to do so" ¹⁹ and whether carriers other than the
12	ILECs are currently capable of "provid[ing] competitive pressures on pricing and
13	terms." ²⁰ A detailed discussion of the application of the triggers is provided in
14	section VI infra.
15	If the Commission tentatively concludes that the self-provisioning trigger is
16	satisfied in a geographic market, it should also examine whether there is still any
17	"significant barrier to entry such that service to mass market customers is
18	foreclosed even to carriers that self-provision switches." ²¹ If the evidence shows

- ¹⁶ TRO, ¶ 499.
 ¹⁷ TRO, ¶ 499.
 ¹⁸ TRO ¶ 504.
 ¹⁹ TRO, ¶ 500.
 ²⁰ TRO, ¶ 505.
 ²¹ TRO, ¶ 503.

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1		that further competitive entry is not feasible, and that the presence of a few self-
2		provisioning carriers does not in fact support a finding that the absence of
3		unbundled switching would not impair competitive entry, then the State may
4		identify such an "exceptional barrier to entry." ²² In such instances, the State
5		should petition the FCC for a waiver to maintain the availability of local
6		switching until the impairment is eliminated.
7	Q.	PLEASE EXPLAIN THE "POTENTIAL DEPLOYMENT" TEST.
8	A.	If the evidence of actual deployment does not establish a lack of impairment in a
9		market, the Commission must then determine whether CLECs could potentially
10		deploy non-ILEC switching to serve the mass market. There are three aspects of
11		this review: assessment of actual switch use, operational impairment, and
12		economic impairment, all of which must be viewed together in concert. ²³
13	Q.	HOW SHOULD THE ACTUAL SWITCH USE ANALYSIS BE
14		CONDUCTED?
15	A.	In determining whether the market in question is suitable for "multiple,
16		competitive supply" to serve mass market customers, the state commission should
17		examine whether competitors are using their own switches to serve voice
18		customers, either enterprise or mass market, in the market at issue. ²⁴ If there are
19		two wholesale providers or three self-provisioners of switching serving the voice
20		enterprise market, and the state commission determines that these providers are

- ²² Id.
 ²³ Id. ¶ 507.
 ²⁴ Id. ¶ 508.

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1		operationally and economically capable of serving the mass market, this evidence
2		should be given substantial weight. ²⁵ As with the triggers, any competitive switch
3		provider relied upon here must be unaffiliated with Qwest, and must be relying on
4		its own switch. ²⁶
5	Q.	PLEASE DESCRIBE "OPERATIONAL IMPAIRMENT."
6	A.	The FCC found that "the operational and economic barriers arising from the hot
7		cut process create an insurmountable disadvantage to carriers seeking to serve the
8		mass market, demonstrating that competitive carriers are impaired without local
9		circuit switching as a UNE. ²⁷ Thus, the FCC recognized that competitors must
10		have assured access to a "seamless, low cost" migration process before UNE-P
11		can be eliminated as a means of serving mass market customers. ²⁸ Accordingly,
12		the Commission must examine whether Qwest has eliminated all operational
13		barriers that limit CLECs' ability to serve mass market customers using CLEC or
14		wholesale provided switching. ²⁹ Operational barriers include, at a minimum,
15		impediments that may affect CLECs' access to unbundled loops (including loops
16		on integrated digital loop carrier ("IDLC"), collocation, and CLEC-to-CLEC
17		cross connects, including cross connects necessary to support line split DSL
18		services. ³⁰ Critically, the Commission's decision may not be based merely on

- ²⁵ Id.
- 26 TRO ¶ 509.
- ²⁷ TRO, ¶ 475 (emphasis added).
 ²⁸ TRO, ¶ 423.
 ²⁹ Id. ¶ 511
 ³⁰ See TRO, ¶¶ 512-514.

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1		Qwest's assertions that it can or will perform adequately. To the contrary, mass-
2		market migration processes must be proved to be both reliable and sustainable
3		at commercially reasonable volumes and at commercially required levels of
4		performance before CLECs can be forced to rely on them. ³¹ Therefore, Qwest
5		must provide proof that demonstrates the extent to which it can scale its
6		operations to meet mass market demand.
7	Q.	PLEASE DESCRIBE "ECONOMIC IMPAIRMENT."
8	A.	The Commission must also consider whether CLECs could economically provide
9		service to mass market customers without access to unbundled local switching. ³²
10		The economic impairment analysis is to be based "not on the experience of any
11		actual entrant, but 'on the most efficient business model for entry."" ³³ To conduct
12		its analysis, the Commission must look at all of the revenues the efficient CLEC
13		would earn and all of the costs the CLEC would have to incur in determining
14		whether it would be economical to enter the mass market in the absence of
15		unbundled switching. ³⁴ The CLEC's cost must be evaluated comprehensively,
16		beginning with the "backhaul penalty" that a CLEC must incur to extend voice
17		grade loops to its own switches, which is a direct outgrowth of Qwest's natural

³¹ TRO, ¶469, fn.1437 ("We find, however, incumbent LECs' promises of future hot cut performance insufficient to support a Commission finding that the hot cut process does not impair the ability of a requesting carrier to provide the service it seeks to offer with at least some sort of unbundled circuit switching."). 32 TRO ¶ 517.

³³ See United States Telecom. Ass'n v. FCC, D.C. Circuit Case Nos. 00-1012 and 00-1015, Petition for a Writ of Mandamus, filed by Verizon on August 28, 2003, at 9 (quoting TRO, ¶ 519) (emphasis in original). ³⁴ *TRO*, ¶ 520.

1	monopoly advantages. ³⁵ Notably, as demonstrated in the accompanying direct
2	testimony of Douglas Denney and Arleen Starr, ³⁶ the cost disadvantage arising
3	from this "penalty" is substantial, and alone demonstrates that CLECs are
4	economically impaired without access to unbundled mass market switching.
5	Thus, it is not surprising that even if the analysis is broadened to include a "broad
6	business case analysis that examines all likely potential costs and revenues,"37 the
7	result is the same - CLECs would be impaired without access to unbundled local
8	switching for serving mass market customers.
9	Such a review must not only include all of the CLEC's other network costs (i.e.,
10	network costs in addition to those required to extend customer loops to a CLEC
11	switch), it must also include all of the CLEC's costs for customer care, marketing
12	and customer acquisition, ³⁸ which are generally higher than Qwest's costs for
13	similar functions. Further, issues of scale, scope, anticipated "sunk costs" of a
14	new entrant, ILEC first mover advantages, and absolute cost advantages must all
15	be taken into consideration. ³⁹ In addition, if the profitability of other services is to
16	be considered, ⁴⁰ the costs of providing those other services must also be included
17	in the analysis. And critically, the FCC made it clear that the revenue to be
18	considered in such an analysis is the average revenue of a typical mass market

³⁵ See Direct Testimony of Robert Falcone and Direct Testimony of Douglas Denney and Arleen See Direct restimony of Robert Farcone and Direct restimony Starr. ³⁶ See Direct Testimony of Douglas Denney and Arleen Starr. ³⁷ TRO n.1581. ³⁸ TRO, ¶ 520. ³⁹ TRO, ¶¶ 85-90. ⁴⁰ TRO ¶ 517.

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1		customer. ⁴¹ As shown in the accompanying declaration of Michael R.
2		Baranowski, applying all of these criteria to the markets served by Qwest in
3		Washington, it is clear that CLECs remain impaired in Washington.
4	Q.	PLEASE DESCRIBE WHAT IS MEANT BY "ROLLING ACQUISITION."
5	A.	If the Commission finds that CLECs are impaired without access to mass market
6		switching in a given geographic market, it must also determine whether the
7		manual batch hot-cut process, as implemented, combined with the rolling
8		availability of unbundled switching as an acquisition tool, would cure any and all
9		of the impairment in that market if UNE-P were no longer available. ⁴² If so, the
10		Commission should require the use of the rolling acquisition process. If such
11		rolling access would not cure all of the remaining impairment, then unbundled
12		switching must remain available as an unbundled network element.
13		Finally, if the Commission determines that CLECs are no longer impaired without
14		access to mass market switching in a given geographic market, or if rolling access
15		would resolve all existing impairment, the state must supervise a phased transition
16		plan under which CLECs would convert the entire embedded base of UNE-P

 $[\]frac{41}{42}$ Id. $\frac{42}{42}$ As indicated by the FCC, when making determinations regarding a transition plan, the facilities, hire, train and equip technicians, customer service and maintenance personnel, develop call related data base capabilities, and in general provide for an orderly transition subsequent to a finding that impairment no longer exists. TRO ¶529

1		customers to UNE-L within 27 months after a finding of no impairment in a
2		particular market. ⁴³
3	Q.	WHAT ARE SOME OF THE ISSUES SURROUNDING THE BATCH
4		HOT-CUT PROCESS?
5	A.	Because the FCC found that the current hot cut process is a principal source of
6		operational and economic impairment for CLECs,44 it also directed state
7		commissions to approve and implement a "batch hot-cut process" that will make
8		hot-cuts more efficient and reduce per line hot-cut costs. ⁴⁵ Concurrently, the
9		Commission must analyze and propose recommendations to address the
10		operational limitations inherent in the hot-cut process. ⁴⁶ The Commission must,
11		therefore, take steps to overcome the economic and operational barriers associated
12		with manual hot-cuts in an effort to remove such impairment, or at a minimum,
13		attempt to alleviate the impairment ("we ask state commissions to take certain
14		actions designed to alleviate impairment in the markets over which they exercise
15		jurisdiction" TRO \P 486). In the unlikely case that Qwest proves CLECs are not
16		impaired without access to unbundled switching in a specific geographic market,
17		it must demonstrate that the manual batch hot-cut process in place has a

 $[\]frac{43}{44}$ TRO ¶ 531. $\frac{44}{16}$ Id., ¶ 473 (finding national impairment based on the "combined effect of all aspects of the hot-cut process," which result in increased costs to competitors, lower quality of service and delays in service provisioning). 45 TRO ¶ 460. 46 TRO ¶ 489.

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1 demonstrated ability to work at an acceptable scale and scope of transactions before unbundled switching is eliminated.⁴⁷ 2 3 Q. DOES THE TRO ALSO REQUIRE CONTINUING, OR ONGOING, 4 **REVIEW OF IMPAIRMENT ISSUES?** 5 A. Yes. After the state commission completes the initial nine-month impairment 6 review, the TRO contemplates further granular reviews to reevaluate whether 7 CLECs remain impaired without access to unbundled local switching. Thus, it 8 will be necessary for the Commission to adopt procedures that will govern such 9 future reviews. In adopting such procedures, the Commission should establish a 10 "quiet period" between the conclusion of the nine-month review and the 11 commencement of any future review. Keeping in mind the nature of the detailed 12 review a state commission will have just completed during the nine-month period, 13 and the fact that neither the competitive market nor the operational and economic 14 factors governing the impairment analysis will change overnight, the Commission 15 is not compelled to engage in a continuous and never-ending series of impairment 16 analyses. Thus, the Commission should establish a quiet period of at least 12 17 months, except upon an extraordinary showing of changed circumstances by 18 Qwest. And in all events, the Commission's procedures should not make such 19 reviews mandatory merely because Qwest seeks to overturn a prior ruling. 20 Rather, the Commission should require Qwest (or other party challenging the

⁴⁷ *E.g.*, *TRO* ¶ 527.

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1		finding of impairment in any future review) to make a detailed, prima facie
2		showing that establishes changed circumstances prior to initiating any future
3		review. If the ILEC does not meet this burden, its request to reexamine
4		impairment should be dismissed. If the ILEC does satisfy this burden, and the
5		Commission commences a proceeding, future reviews must be completed within
6		six months of the filing of a pleading submitted in accordance with the procedures
7		Commission has established. ⁴⁸
8 9		III. <u>THE PUBLIC INTEREST BENEFITS OF THE UNBUNDLED</u> <u>NETWORK ELEMENT PLATFORM ("UNE-P")</u>
10 11		A. UNE-P PROVIDES TANGIBLE ECONOMIC BENEFITS TO CONSUMERS
		DENERTIS TO CONSUMERS.
12	Q.	WHAT WAS THE PURPOSE BEHIND THE PASSAGE OF THE
12 13	Q.	WHAT WAS THE PURPOSE BEHIND THE PASSAGE OF THE FEDERAL TELECOMMUNICATIONS ACT OF 1996?
12 13 14	Q. A.	WHAT WAS THE PURPOSE BEHIND THE PASSAGE OF THE FEDERAL TELECOMMUNICATIONS ACT OF 1996? Congress enacted the federal Telecommunications Act to "promote competition
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12 13 14 15 16 17	Q. A.	 WHAT WAS THE PURPOSE BEHIND THE PASSAGE OF THE FEDERAL TELECOMMUNICATIONS ACT OF 1996? Congress enacted the federal Telecommunications Act to "promote competition and reduce regulation in order to secure lower prices and higher quality services for American telecommunications consumers and encourage the rapid development of new telecommunications technologies."⁴⁹ Its centerpiece is a set
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 ⁴⁸ Id. ¶ 526.
 ⁴⁹ Federal Telecommunications Act of 1996, Preamble.

1	facilities from the incumbent monopolies to provide a platform for competing
2	services, or (3) reselling the incumbents' retail services.
3	The Act specifically recognizes that granting CLECs access to ILEC networks is
4	essential to the development of competition in local telecommunications, because
5	without such access, CLECs would have to replicate existing networks in order to
6	compete, even in those markets where such duplication was clearly inefficient.
7	Indeed, uneconomic duplication of facilities would result in higher costs for both
8	the CLEC and the ILEC – costs that would necessarily be passed on to consumers
9	through higher rates.
10	The FCC has also recognized that requiring replication of the ILECs' multi-
11	billion dollar networks, built over many decades under low-risk, guaranteed rate-
12	of-return regulations, as the only means of competitive entry into the local market
13	"would likely delay market entry and postpone the benefits of local telephone
14	competition for consumers." ⁵⁰ In those instances where a CLEC happened to find
15	it economically worthwhile to engage in replication, its
16	

⁵⁰ First Report and Order, In re Implementation of the Local Competition Provisions in the Telecommunications Act of 1996; Interconnection Between Local Exchange Carriers and Commercial Radio Service Providers, FCC 96-325, 11 F.C.C.R. 15499 (rel. August 8, 1996) ("Local Competition Order"), at ¶ 378.

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2 Q. WHAT IS THE ROLE OF UNE-P IN FOSTERING AND DEVELOPING 3 LOCAL EXCHANGE COMPETITION? 4 A. The continued availability of UNE-P, which allows CLECs to compete without 5 replicating the entirety of the incumbent monopolist's network, is crucial to 6 achieving the Telecom Act's goals for the majority of local telephone users that 7 comprise the "mass market." As the FCC found in the TRO, the ability to obtain 8 unbundled switching in combination with the ILECs' monopoly unbundled loops 9 enable CLECs serving mass market customers to obtain ready access to such loops and avoid the substantial entry barriers associated with hot cuts.⁵² And, as 10 11 shown in the accompanying testimony, without UNE-P, CLECs also face a large 12 "backhaul penalty" because, unlike the ILECs, CLECs must deploy a substantial infrastructure in order to extend ILEC mass market loops to CLEC switches.⁵³ 13 14 Thus, if CLECs cannot lease switches and mass market loops in combination but 15 are instead forced to deploy and use competitive switches to serve mass market 16 customers, the result would be substantial operational and economic barriers to 17 entry. Forcing CLECs to self-provision all their switching would place them at a

expenditures may waste social resources.⁵¹

1

⁵² See TRO at ¶459.

⁵¹ See, e.g., Douglas Lichtman & Randall C. Picker, Entry Policy in Local Telecommunications: Iowa Utilities and Verizon, 2002 SUP. CT. REV. 41, 52, 54 (2002) (discussing the view that unbundled access to network elements is justified "in instances where new entrants would otherwise provide their own elements but those duplicative elements would represent social waste"); First Local Competition Order, at ¶ 378 (observing that in areas where "the most efficient means of providing competing service [is] through the use of unbundled loops[,] preventing access to unbundled loops would either discourage a potential competitor from entering the market in that area ... or cause the competitor to construct unnecessarily duplicative facilities, thereby misallocating societal resources").

⁵³ See Direct Testimony of Robert Falcone; see also TRO at ¶¶ 480-482.

1	severe competitive disadvantage relative to ILECs in the mass market. ⁵⁴
2	Maintaining access to unbundled switching and UNE-P represents the only way to
3	assure there will be effective competition to serve mass market customers.
4	Not surprisingly, whenever an incumbent confronts the same impairments that
5	frustrate CLECs – that is, how to offer local service on a competitive basis as a
6	new entrant – it reaches the same answer: UNE-P. For instance, SBC revealed
7	during the review of its merger with Ameritech that its out-of-region entry
8	strategy was premised on the use of network element combinations to serve the
9	residential and small business market.55 Similarly, in Pennsylvania, Bell Atlantic
10	was ordered to file a plan to separate its operation into wholesale and retail
11	affiliates. In that plan, Bell Atlantic (now Verizon) proposed to use UNE-P as its
12	principal entry strategy. ⁵⁶
13	There can be no question that UNE-P is the key to developing and maintaining
14	broad-scale local competition for mass market customers. Perhaps most
15	significantly, UNE-P has shown a remarkable ability to bring local competition to
16	underserved markets (such as residential and business customers with
17	conventional phone requirements) while at the same time promoting innovation,
18	accelerating the deployment of advanced data services, and providing a solid
19	foundation for capital investment.

 ⁵⁴ See TRO at ¶422.
 ⁵⁵ See CC Docket No. 98-141, SBC/Ameritech Merger Application, Kahan Aff. At para. 42 (July 24, 1999) ⁵⁶ See Re Structural Separation of Verizon Pennsylvania Inc. Retail and Wholesale Operations,

Pennsylvania Public Utility Commission, Docket No. M-00001353.

Q. 1 DOES UNE-P PROVIDE TANGIBLE ECONOMIC BENEFITS TO 2 **CONSUMERS?**

3	A.	Most definitely. Because of UNE-P, the Federal Telecommunications Act, at
4		long last, is beginning to generate significant benefits for mass market customers
5		in the places where it is being widely implemented. As one Wall Street report
6		recently noted, " the U.S. consumer is getting a great deal increased choice
7		of providers, increased choice of offers and crucially falling prices for the vast
8		majority of Americans, in their capacity as telecom customers, the telecom market
9		seems to be working pretty well." ⁵⁷ Similarly, Banc of America Securities has
10		noted that "[r]ising competition in the consumer wireline market has led to an
11		explosion in the number of available plans from which consumers can choose
12		On the horizon, revitalized UNE-P deployments will bring more players into more
13		states ^{,,58}
14		These benefits can be expected to grow substantially in the future – but only if
15		UNE-P is permitted to continue. Restricting the availability of unbundled mass
16		market switching now would eliminate those benefits and further entrench - and
17		expand – the ILECs' monopolies.
18		UNE-P enables multiple competitors to obtain access to essential monopoly
19		functionality at cost-based rates, and to compete in the retail functions of pricing,

 ⁵⁷ <u>The Telecommunicator</u>, Merrill Lynch Flash Note, September 26, 2003.
 ⁵⁸ Wireline Service Pricing: Assessing the Industry's Competitive Footing, Banc of America Securities, September 22, 2003.

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1	packaging, and delivering telecommunications services to their customers.
2	CLECs can – and do – design and offer packages that drive end user prices closer
3	to cost and put downward pressure on the ILECs' prices. At the same time,
4	CLECs' retail customer service operations can place substantial non-price
5	competitive pressure on the ILECs as well, forcing the ILECs to improve their
6	own retail operations and customer responsiveness. UNE-P thus produces
7	enormous consumer benefits that would not otherwise be available.
8	A recent study in California has quantified the benefits to consumers from the
9	availability of UNE-P in that state alone. ⁵⁹ According to the study,
10 11 12 13 14 15 16 17	Although economically feasible UNE-based competition for local telephone service has only been available for less than a year in California, the savings so far have been considerable. This is despite the continued dominance of SBC and Verizon in their territories. Some of the benefits have come from the new entrants lowering prices on high-margin services, others from the effective expansion of the local calling areas, and still others from the competitive responses of the incumbents. ⁶⁰
18	Using publicly available data, the study estimates that the savings to residential
19	telephone subscribers in California for local service alone is already at least \$189
20	million, on an annual basis.
21	The Michigan Alliance for Competitive Telecommunications (MiACT) has
22	calculated similar benefits for consumers in Michigan. Specifically, MiACT
23	estimated that lower wholesale rates, which resulted in increased competition,

⁵⁹ See Braunstein, The Role of UNE-P in Vertically Integrated Telephone Networks: Ensuring Healthy and Competitive Local, Long-Distance and DSL Markets at 7 (May 2003). ⁶⁰ Id. at 8.

1	saved Michigan consumers \$72 million on phone bills in 2002, and could save
2	consumers an additional \$135 million this year. ⁶¹
3	Perhaps most impressive is a recent report by the Consumer Federation of
4	America (CFA), entitled "Competition at the Crossroads: Can Public Utility
5	Commissions Save Local Phone Competition?" The CFA there estimates that as
6	many as 30 million households have benefited from competition that has brought
7	about discounted bundles of local and long distance phone service, while millions
8	more have been able to choose alternative local service. Consumer savings from
9	local telephone competition have mounted sharply in recent months to as much as
10	\$5 billion per year. ⁶² The study concludes, however, that
11 12 13 14 15 16 17	The tremendous gains that competition and consumers have made recently will be short-lived if the incumbent carriers succeed in undermining UNE-based competition, and forcing weakened competitive carriers to build redundant telecommunications networks. If this happens, it will spell the end of local phone competition, and the real savings being enjoyed by consumers across the country will disappear. ⁶³
18	The fact that UNE-P is a necessary prerequisite to local competition is aptly
19	demonstrated in Washington. Since June of 2001, UNE-P is the fastest growing
20	CLEC market entry strategy among the strategies of resale, Centrex resale, UNE-
21	P, and UNE-Loops. The growth of UNE-P lines in service in Washington since

⁶¹ TR State Newswire, "MiACT says consumers saved \$72M on phone bills last year" (May 16,

 ⁶² Consumer Federation of America, "Competition at the Crossroads: Can Public Utility Commissions Save Local Phone Competition?" at p. 7 (Oct. 7, 2003). This calculation does not include savings for consumers who have not taken bundles, but have switched providers.
 ⁶³ Id.

1	June of 2001 is over 113 percent. ⁶⁴ By contrast, the number of resale lines in
2	service in Washington in that same period has dropped by 56.5 percent, and the
3	number of UNE-L lines has only grown 63.7 percent. ⁶⁵ At the end of 2002,
4	Washington consumers had 56,252 of their lines served via UNE-P. ⁶⁶ During the
5	four-month period from July through October, 2003, Qwest installed an additional
6	41,527 new UNE-P lines in Washington (an average of over 10,000 UNE-P lines
7	per month). ⁶⁷
8	In fact, Qwest relies heavily upon the existence and proliferation of UNE-P to
9	support its own case for the competitive classification of business service here in
10	Washington. ⁶⁸
11	Thus, contrary to Qwest's rhetoric here, UNE-P provides "real" competition with
12	"real" consumer benefits. For example, as UNE-P competition increased in its
13	territory, Qwest was forced to offer lower rates and better service packages in
14	response. The common elements of its competitive responses included lower
15	rates, greater packaging of features, and reduced distance and/or usage rates.
16	Qwest recently introduced a "best value" program in an attempt to offer its
17	customers a better deal before a competitor does. In explaining the "best value"
	customers a better dear before a competitor does. In explaining the best value

⁶⁴ Selected FCC Form 477 data as of June 30, 2001 and December 31, 2002.

⁶⁵ *Id*.

⁶⁶ Selected FCC Form 477 data, December 31, 2002.

⁶⁷ Qwest Performance Results, Washington, Checklist Format, November 2002-October 2003, November 20, 2003, PIDs OP-3B and OP-3C, pp. 84-86. ⁶⁸ In the Matter of the petition of Qwest Corp. for competitive classification of basic business

exchange telecommunications services, Docket No. UT-030614.

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1	stated, "in the competitive environment we're in, it's important for us to be
2	proactive and let customers know when they can get a better deal." ⁶⁹ In further
3	explaining the "best value" program, it was reported:
4 5 6 7	So what's the catch? Is Qwest hoping to persuade customers to buy more services that, in total, actually result in larger bills? No, Pitchford said. Rather, Qwest realizes its 25 million customers can and do receive offers from numerous competitors. ⁷⁰
8	Qwest was candid in reporting that it reacted to the presence of UNE-P with better
9	packages and bundles when it stated:
10 11 12 13 14 15 16 17 18 19 20 21 22 23	On the access lines, you know, there are the three factors that we got hit with. The first is UNE-P. If you look at the UNE-P for the quarter it increased substantially from prior quarters and about 100,000 (sic). Over what we experienced in – you know, that is quite a kickup and and (sic) <i>our reaction to that, I think, was a little slow on our packages. We did not get our unlimited package out until late May or sometime during May</i> we didn't really get the advertising to kick in until towards the end of the quarter in June, so the reality is that <i>our response to the UNE-P efforts on the part of MCI and AT&T I think was slow on the draw and we got hit pretty good in selected markets like Seattle and shame on us, but we have the unlimited packages out now the all you can eat and we have seen a substantial reduction in their ability to continue the trajectory that they were on.</i> ⁷¹
24	Qwest has recognized that it needs to offer better and more innovative services
25	and marketing practices to compete with CLECs offering UNE-P. In response to

⁶⁹ Denver-Based Qwest Launches Program Aimed at Helping Consumers Cut Costs, Denver Post, November 3, 2003. ⁷⁰ *Id.* ⁷¹ Richard Notebaert, Qwest Communications Inc., CEO 2Q03 Earnings Conference Call,

September 3, 2003. (emphasis added)

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1	an analyst's question on UNE-P trending in Qwest's region, Richard Notebaert
2	responded:
3	I tried to indicate in my opening remarks that you will see
4	additional announcements from us over the next few weeks as we
5	go into the selling season. If you think about us like would a retail
6	outlet. We have some things that Pat Ingalls and the folks in our
7	product will be putting out over the next few weeks to change
8	some of the pricing and packages and I think that has potential, we
9	will see how it does. The other thing is, one of the biggest
10	comments we get from customers on our win back programs is,
11	gosh, if we had known you had that package, all you could use,
12	local and long distance, whatever, if we had know, we wouldn't
13	have left. So, that indicates to us that our problem is we think with
14	some more changes, we have got the right set-up, packages and
15	bundles but we really haven't done as good a job as we should, my
16	fault, in communicating it to customers and so, you'll see a change
17	in summer of our advertising, you will also see us going the door
18	hanger rout, <i>learning from competition</i> . Doing a lot of things in a
19	past a company like us would be nontraditional and so, I think the
20	communications as well as the changes in the packages are a big
21	help. ⁷²
22	SBC also recognized that its decision to offer consumers and businesses better
23	services was directly linked to the developing competition:
24	"It's absolutely in response to competition." Ameritech spokesman
25	Greg Connel said of the company's repackaged deals. "I wouldn't
26	peg it to any one competitor. It's in response to increasing
27	competition in the market. We have to be responsive to that and
28	provide the best value we can. ⁷³

 ⁷² Richard Notebaert, Qwest Communications Inc., CEO, 3Q03 Earnings Conference Call, November 19, 2003. (emphasis added)
 ⁷³ Ameritech Sets New Prices – Phone Company Unveils Service Packages in Bid to Hold Off Competitors Entering Local Markets, Akron Beacon Journal, August 13, 2002 (emphasis added).

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1	Similarly, other RBOCs have explained to their investors that they are being
2	forced to innovate in <i>response</i> to UNE-P based competition:
3	What happens is you lower the price [of UNE-P], there's a rush to
4	get into those markets, the carriers take some share, it stabilizes, we
5	fight back, and the customers realize it's a losing proposition for
6	them, so they come back to us some customers will go to the
7	UNE carriers and we know that, but you won't have this constant
8	drain of loss. So, I think that what you're seeing here is, depending
9	on the state, state lowers the rate, we see a little bit of extra loss, then
10	we stabilize it, we compete with it, you know, we have better
11	service, we have better packages, so on and so forth. \dots ⁷⁴
12	***
13	The key strategy in the consumer market is to compensate for the loss of
14	retail lines and customers to new technologies by increasing the revenue
15	per line for our existing customer base, through new and bundled product
16	offerings, single billing and excellent customer service. ⁷⁵
17	***
18	To compensate for the loss of revenues in our traditional business, we
19	have focused on introducing new products and bundles to capture market
20	share and retain customers with solid margins and good ROIC [Return on
21	Invested Capital]. ⁷⁶
22	***
22	Our new unlimited answers consumer plan has been a great success. Since
23	lounch over one third of our new long distance sustemers have chosen the
25	unlimited plan. ⁷⁷
26	***
21	I here wasn't much change in the cable competition or movement to
28 20	wireless. And I think the reduction [in retail losses] is because of
29	our aggressiveness in packages and our ability to deal with UNE-P

⁷⁴ Ivan Seidenberg, Verizon Chairman, 2Q03 Analysts Call, July 29, 2003
⁷⁵ Doreen Toben, Verizon CFO, 3Q03 Analyst Call, October 28. 2003.
⁷⁶ Randall Stephenson, SBC CFO, 2Q03 Analysts Call, July 29, 2003.
⁷⁷ Ronald Dykes, BellSouth CFO, 3Q03 Analysts Call, October 22, 2003.

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1 2		I think we're having a huge impact on UNE-P with our bundles, our LD and our aggressive all distance pricing. ⁷⁸
3		Thus, it is clear that the ILECs would never have lowered prices or innovated in
4		these ways unless they were facing UNE-P based competition, and they will have
5		substantially fewer incentives to maintain those innovations if UNE-P
6		competition is eliminated.
7	Q.	HAVE COMMISSIONS IN OTHER STATES SUPPORTED THE
8		CONTINUED AVAILABILITY OF UNE-P AT COST-BASED RATES?
9	A.	Yes, most definitely. State commissions also recognize the critical importance of
10		UNE-P. The Texas PUC has found "compelling the evidence that UNE-P is the
11		only viable market entry mechanism that readily scales to varying sized exchanges
12		to serve the mass market, while minimizing capital outlays and permitting a
13		CLEC to gain a foothold. In particular, UNE-P is the only viable option for
14		providing competitive analog [voice-grade] local service to small business
15		customers." ⁷⁹ The Texas commission found that, unlike resale, "UNE-P provides
16		CLECs with a meaningful opportunity to differentiate their products and services
17		to consumers," and "will also facilitate CLEC creation of innovative product
18		offerings," which "continues the benefit of customer choice in service providers
19		and service packaging to a large geographic segment of the population." ⁸⁰ The

 ⁷⁸ Id.
 ⁷⁹ TPUC Docket No. 24542, Revised Arbitration Award at pp. 87-88 (October 3, 2002) (emphasis added).
 ⁸⁰ Id. at 88.

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1		FCC has similarly characterized the importance of UNE-P, telling the Supreme
2		Court that "the UNE Platform has been the most important vehicle for competitive
3		entry into local markets for residential and small business customers."81
4 5 6 7		B. UNE-P ALLOWS CLECs TO OFFER BUNDLED SERVICES, WHICH IN TURN IS NECESSARY TO PREVENT THE REMONOPOLIZATION OF LONG-DISTANCE BY THE ILECs.
8	Q.	HOW DOES THE CONTINUED AVAILABILITY OF UNE-P RELATE TO
9		A CLEC's ABILITY TO PROVIDE BUNDLED SERVICE OFFERINGS?
10	A.	It is crucial. A fundamental market force in telecommunications is the emergence
11		of one-stop shopping — consumers' desire to purchase "bundles" of
12		telecommunications services from a single supplier. Recent press accounts put
13		the number of consumers who have switched to one-stop-shopping bundles at
14		close to 30 million $-$ 12+ million for the competitors and 18+ million for the
15		incumbents. ⁸² Qwest recognizes the competitive importance of bundles. Its CEO
16		Richard Notebaert stated:
17 18 19 20		In addition to service initiatives, we are focusing on leveraging a now complete bundled offering that includes DSL, wireless, video local and long-distance services. We continue to drive customer lovalty through these bundled offerings and competitive pricing.
21		They are showing success. Package penetration increased again in

 ⁸¹ Brief for Petitioners FCC and the United States, at 44, Verizon Comm. Inc. v. FCC, 122 S. Ct. 1646 (2002) (filed April 2001) (emphasis added).
 ⁸² Consumers Federation of America, "Competition at the Crossroads: Can Public Utility Commissions

Save Local Phone Competition?" at p. 7 (Oct. 7, 2003)

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1 2	the third quarter and we expect this to continue to grow as we launch exciting new offers over the next several weeks. ⁸³
3	Other ILECs agree, stating that they view bundling "as a driver of customer
4	retention and customer longevity full service satisfied customers tend to stay,
5	they tend to be more resilient, and they do not – they are not affected by
6	telemarketing calls from competitors" ⁸⁴
7	If there is not effective competition for each element in the bundle, competition in
8	all related telecommunications markets will suffer. The single most important
9	element of any bundle indeed, the <i>compulsory</i> element of virtually any bundle -
10	- is local phone service. As one BellSouth Executive recently stated: "It is all
11	about keeping the connection with the customer, and to me, that is job one for
12	us." ⁸⁵
13	Without local phone service, effective competition for many of the other services
14	in the bundled package (including long distance or data service) is not possible.
15	As consumers more and more frequently choose full-service providers to meet
16	their telecommunications needs, CLECs must be able to offer ubiquitous local
17	exchange service as easily as ILECs can offer long distance services, or
18	competition in <i>both</i> markets will be jeopardized. This requires that CLECs have
19	access to cost-efficient entry strategies with efficient and inexpensive (i.e.,
20	electronic not manual) provisioning systems that can reliably accommodate large

⁸³ Richard Notebaert, Qwest Communications Inc., CEO, 3Q03 Earnings Conference Call, November 19, 2003.
⁸⁴ Ronald Dykes, BellSouth CFO, 2Q03 Analysts Call, July 23, 2003.
⁸⁵ Ronald Dykes, BellSouth CFO, 1Q03 Analysts Call, April 23, 2003.

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1	volumes at a relatively small transaction cost, and that enable entrants to offer
2	their services across an entire market footprint. UNE-P is the only mechanism
3	that provides that opportunity. ⁸⁶
4	The necessity for local competition is demonstrated by recent experience in long
5	distance. Now that the RBOCs have received long-distance authority throughout
6	their service areas, they are rapidly acquiring significant market share in the long
7	distance market. Qwest's CEO recently stated:
8 9 10 11 12 13 14 15 16 17	In long distance, we continue the strong growth that we have has so far. In the local service area, we added long distance to 572,000 lines in the quarter bringing our total to nearly 1.7 million customers. Consumer market share climbed to 20% in the eight states we launched in January, that's up from 14% in the second quarter so, you can see the trajectory we are on and the great news is in the five states launched subsequently, we are running at a growth rate equal to the first eight states and we expect to get the final regulatory approvals to add the final state in the union, the final state in our service area Arizona in early December ⁸⁷
18	At the end of September, 2003, Verizon had 15.9 million long distance lines, SBC
19	had 11.5 million, and BellSouth had 3.4 million. As a percentage of their retail
20	lines, this equates to 28.6 percent for Verizon, 24.1 percent for SBC, and 16.2
21	percent for BellSouth, for an average long distance share of almost 24.7 percent
22	across all three of these Bell companies. ⁸⁸ It is informative to recognize that

⁸⁶ The TRO itself, in requiring that long distance revenues be included in the economic impairment business case, highlights the need for carriers to be able to compete in both the ⁸⁷ Richard Notebaert, Qwest Communications Inc., CEO, 3Q03 Earnings Conference Call,

November 19, 2003. ⁸⁸ Note that market share as a percent of customers rather than lines will be higher, because many customers have more than one local line.

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1	Qwest has achieved a market share of 20 percent in little over a year of offering
2	long distance service and in that short time has surpassed BellSouth's market
3	share and is closing on the long distance market shares of RBOCs that have been
4	offering long distance services for three or four years. Perhaps even more
5	important, all of the Bells continue to maintain or accelerate their very significant
6	growth rates in line increases in long distance. From the second to the third
7	quarters of 2003, Qwest increased the number of its long distance access lines by
8	50.7 percent. ⁸⁹ Other RBOCs reported similar significant growth in their access
9	lines. For 3Q03, Verizon reported a 35.9 percent increase in lines over 3Q02,
10	SBC reported a 94.9 percent increase, and BellSouth reported a 726.9 percent
11	increase. ⁹⁰
12	Verizon is now the third largest long distance provider nationally, and reports that
13	it has a market share of about 40 percent in its existing customer base, and as high
14	as 50 percent in some states. ⁹¹ In the states in which it operates, Verizon has
15	gained, in just a few years, a market share substantially greater than that which

⁸⁹ Qwest Press Release, *Qwest Communications Reports Third Quarter 2003 Earnings Per Diluted Shared of \$1.05*, November 19, 2003.

 ⁹⁰ Ronald Dykes, BellSouth CFO, 3Q03 Analysts Call (October 22, 2003); Doreen Toben,
 Verizon CFO, 3Q03 Analyst Call (October 28, 2003); Randall Stephenson, SBC CFO, 3Q03
 Analysts Call (October 21, 2003). Rates vary between the Bells primarily as a result of how recently they received 271 relief in one or more of their states. Verizon has had 271 relief in many of its states for a longer period than either SBC or BellSouth.
 ⁹¹ Doreen Toben, Verizon CFO, 3Q03 Analyst Call (October 28, 2003). As noted supra, long

⁹¹ Doreen Toben, Verizon CFO, 3Q03 Analyst Call (October 28, 2003). As noted supra, long distance market share as a percentage of Verizon's customers will be higher than LD as a percentage of its lines because many customers have more than one line.

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1	MCI and Sprint together took more than two decades to achieve. ⁹² Indeed, in
2	Texas SBC currently has greater than 50 percent of the long distance market, and
3	Verizon, SBC and BellSouth are each predicting that they will soon achieve a
4	long distance market share of 60 percent of customers in the states in which they
5	operate.
6	In an environment where customers clearly desire packages of services, the
7	ILECs' market power over local service provides them huge advantages in related
8	markets as well. According to a report by the PACE Coalition, the recent
9	experience in bundled service offerings indicates "the incumbent RBOC is
10	emerging as the dominant provider of bundled-services, with most of the
11	competition that it faces - more than 80 percent in fact - coming from
12	competitors using UNE-P the RBOC is likely to remain dominant, even if the
13	same entry and wholesale options that exist today are retained. The RBOCs'
14	share of the bundled-services market stands near 70 percent when measured
15	against other traditional wireline providers."93
16	The potential harm to emerging competition in long distance was clearly
17	contemplated at the time of the Bell System divestiture, and was part of the
18	rationale behind divesting AT&T and the Bell companies and barring the Bell
19	companies from offering long distance services. Now that the Bells have been

 ⁹² At the end of 1996 (approximately 20 years after MCI first introduced its Execunet Service),
 MCI and Sprint together had 21.9 percent of the market. Source: Long Distance Market Shares (4th Quarter 1998), Federal Communications Commission, March 1999.
 ⁹³ Measuring RBOC Dominance in Bundled Services: The Progress of Competition Under the

⁹³ Measuring RBOC Dominance in Bundled Services: The Progress of Competition Under the New Social Contract. PACE Coalition, November 2003. (www.pacecoalition.org)
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1		allowed to offer long distance services, they once again have an incentive to harm
2		long distance competition. That it is again becoming a reality is demonstrated by
3		the following ILEC statistics: 44 percent of Verizon's retail customers have two
4		or more services from Verizon, either long distance or DSL or both, in addition to
5		local service. ⁹⁴ As SBC has said, "Bundling drives retention," with 36 percent of
6		SBC's consumer retail lines having at least one other service in addition to local
7		long distance, DSL or wireless. ⁹⁵
8		It is thus obvious that with the ILECs' ability to offer competitive services (such
9		as long distance and Internet access) combined with their local services, they are
10		positioned to recapture the position they had prior to divestiture when they
11		operated as fully integrated monopolies.
12	Q.	HOW REAL IS THE THREAT OF REMONOPOLIZATION?
13	A.	Remonopolization is not speculation, it is extrapolation – and the resulting losses
14		in competition, efficiency and innovation are a very real threat to consumers and
15		the American economy. It is a bitter irony that the reason ILECs are able to so
16		quickly penetrate the long distance market is because they have available the long
17		distance equivalent of UNE-P – willing wholesale providers that offer end-to-end
18		transmission and long distance switching at cost-based rates, and a fully
19		automated provisioning system (the "PIC change" process) that rapidly,
20		inexpensively and reliably migrates customers. The only alternative to

⁹⁴ Ivan Seiderberg, Verizon CEO, 3Q03 Analyst Call (October 28, 2003).
⁹⁵ Randall Stephenson, SBC CFO, 3Q03 Analysts Call (October 21, 2003).

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1		remonopolization is a vibrantly competitive, local mass market. And, as the
2		experience in Washington demonstrates, that goal is only possible through
3		widespread and affordable access to UNE-P.
4 5 6		C. THE AVAILABILITY OF THE UNE PLATFORM PROMOTES, RATHER THAN DISCOURAGES, INVESTMENT IN FACILITIES.
7	Q.	DOES THE AVAILABILITY OF THE UNE PLATFORM PROMOTE OR
8		DISCOURAGE CLEC INVESTMENT IN FACILITIES?
9	A.	ILECs have repeatedly claimed that the availability of UNEs impedes the
10		development of competition, because the availability of UNEs at TELRIC rates
11		discourages investment in facilities-based alternatives that would promote more
12		robust forms of competitive entry. Thus, they claim that a rational CLEC (given
13		the choice) will virtually always compete through use of cost-based UNEs rather
14		than build alternative facilities, because it can "free-ride" on the ILEC's
15		investment rather than taking the greater risk of building its own network. The
16		ILECs also claim that the availability of UNEs discourages them from upgrading
17		their own networks, because any benefits derived from those investments would
18		have to be shared with their competitors.
19		Both claims are legally, theoretically and factually wrong. As a general rule,
20		carriers can (and will) only invest in facilities when they can expect those
21		facilities to carry enough traffic to justify their cost. Unbundling rules enable
22		CLECs to build up their customer base first, then to invest in facilities, because

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1		then those facilities can be efficiently utilized to generate an adequate return.
2		This principle is not only firmly established by economic theory, it is also borne
3		out by recent marketplace experience. Indeed, much of the extraordinary telecom
4		facilities investments of the late 1990s and early 2000s were the result of
5		investors being lured by the hype of the Internet Bubble, abandoning more
6		rational investment strategies in favor of the "build it and they will come"
7		approach. When the extraordinary traffic demand projections used to justify these
8		investments failed to materialize, investment capital evaporated, and a great many
9		carriers were forced into reorganization or liquidation.
10	Q.	WHAT EFFECT DOES THE AVAILABILITY OF THE UNE PLATFORM
11		HAVE ON ILEC INVESTMENT?
11 12	A.	HAVE ON ILEC INVESTMENT? A well-structured and rigorously enforced UNE-P requirement has little or no
11 12 13	A.	HAVE ON ILEC INVESTMENT? A well-structured and rigorously enforced UNE-P requirement has little or no adverse impact on a Bell's incentive to invest. Indeed, the Supreme Court found
11 12 13 14	A.	HAVE ON ILEC INVESTMENT? A well-structured and rigorously enforced UNE-P requirement has little or no adverse impact on a Bell's incentive to invest. Indeed, the Supreme Court found that UNE availability stimulates ILEC investment. ⁹⁶ Frankly, the Bells' threat to
 11 12 13 14 15 	A.	HAVE ON ILEC INVESTMENT? A well-structured and rigorously enforced UNE-P requirement has little or no adverse impact on a Bell's incentive to invest. Indeed, the Supreme Court found that UNE availability stimulates ILEC investment. ⁹⁶ Frankly, the Bells' threat to stop investing unless they are granted the self-serving regulatory relief they seek
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⁹⁶ See Verizon Communications, 535 U.S. at 516-17 ("[I]t suffices to say that a regulatory scheme that can boast such substantial competitive capital spending over a 4-year period [\$55 billion] is not easily described as an unreasonable way to promote competitive investment in facilities.").

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1 2	For years incumbents have been saying "Deregulate our provision of broadband, and we will invest." But now that broadband
3	deployment is deregulated, they are saying "Deregulate our
4	provision of our historically monopoly service – basic phone
5	service – and we will invest in broadband." They essentially are
6	saying, "Free us, and we will invest."
7	We have responded, "Invest, and you will be free."
8	As the Commission faces regulatory decisions in the coming year,
9	I will try to view them through the following prism. Are the
10	incumbents seeking the opportunity to invest in their network
11	architecture, provide new services, and receive the benefits of that
12	new investment? If so, I think the Commission should be
13	encouraging. Indeed, I again support many of the premises of Tom
14	Tauke's speech this week at the Schwab Investment conference,
15	calling for deregulation of broadband. While I am not sure that
16	there is the same level of confusion about what we meant in recent
17	orders, I agree we should address these issues. But, to the extent
18	incumbents are seeking to get out of regulations that apply to their
19	legacy infrastructure or to diminish competition for legacy voice
20	services that Congress expected, I will be less inclined. ⁹⁷
21	On the other hand, restrictions on unbundling actually diminish ILECs' incentives
22	to build. Studies show there has been more facilities investment by both CLECs
23	and ILECs in states where there is effective UNE-P competition than in those
24	states where there is not. Moreover, the experience of other countries supports
25	the same conclusion: the Organization for Economic Cooperation and
26	Development ("OECD") concluded, after an extensive survey of marketplace
27	evidence in 30 countries, that "opening access networks and network elements to
28	competitive forces increases investment and the pace of development," and that,

⁹⁷ Remarks of Commissioner Kevin J. Martin, 21st Annual Institute on Telecommunications Policy & Regulation, December 5, 2003.

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1		by contrast, there is "no evidence to substantiate" the claim that unbundling
2		"discourage[s] investment in new infrastructure."98
3	Q.	BUT DOESN'T THE AVAILABILITY OF UNE-P SERVE AS A
4		"CRUTCH" TO CLECs, PREVENTING THEM FROM INVESTING IN
5		INFRASTRUCTURE?
6	A.	Under the ILECs' view, (1) if UNEs (especially unbundled local switching) were
7		not available CLECs could successfully build and compete with alternative
8		facilities today to a greater extent than they are currently doing; (2) CLECs are
9		declining to invest because UNEs offer an easier and more attractive option; and
10		(3) the way to accelerate the development of alternative networks is to remove the
11		UNE "crutch" and force CLECs to "stand on their own feet."
12		The ILECs are wrong on all counts. Indeed, this theory is premised on patently
13		erroneous assumptions that are contradicted by all available evidence. CLECs
14		will deploy their own facilities whenever and wherever it is economically and
15		technically feasible to do so, whether or not UNEs are available as an alternative.
16		The availability of UNEs helps to make a broader range of facilities investments
17		feasible, and will not discourage such investments when they are feasible.
18		The great irony of the ILECs' argument is that they have no economic reason to
19		promote more facilities-based competition to their monopolies. With UNE-P,
20		ILECs are able to recover the costs of their network investments plus a reasonable

⁹⁸ The Development of Broadband Access in OECD Countries, OECD Report, pp. 4, 15 (Oct. 29, 2001).

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1		profit. With substantial CLEC facilities-based investment, ILECs would earn no
2		return off of the network investments that were used to serve their former
3		customers and they would face a substantial amount of stranded plant. Both
4		ILECs and CLECs understand that the greatest promise for competition, and the
5		greatest threat to the ILECs' existing monopolies, will come from facilities-based
6		alternatives in local markets, just as it did in the long-distance market. That is
7		why ILECs oppose, and CLECs support, the broad availability of UNEs – because
8		both sets of carriers recognize that UNE availability is essential to promote
9		facilities deployment. That is the teaching of both basic economics and
10		marketplace experience.
11	Q.	CAN YOU POINT TO ANY ECONOMIC PRINCIPLES TO SUPPORT
12		YOUR VIEW?
12 13	A.	YOUR VIEW? Basic economic principles show that the ILECs' suggestion that the availability of
12 13 14	A.	YOUR VIEW? Basic economic principles show that the ILECs' suggestion that the availability of UNEs might discourage CLECs from investing in their own facilities is nonsense.
12 13 14 15	A.	YOUR VIEW?Basic economic principles show that the ILECs' suggestion that the availability ofUNEs might discourage CLECs from investing in their own facilities is nonsense.First, reliance upon UNEs places CLECs at a substantial cost disadvantage even
12 13 14 15 16	A.	YOUR VIEW? Basic economic principles show that the ILECs' suggestion that the availability of UNEs might discourage CLECs from investing in their own facilities is nonsense. First, reliance upon UNEs places CLECs at a substantial cost disadvantage even when (as is often not the case) UNE rates have been properly set under TELRIC.
 12 13 14 15 16 17 	A.	YOUR VIEW? Basic economic principles show that the ILECs' suggestion that the availability of UNEs might discourage CLECs from investing in their own facilities is nonsense. First, reliance upon UNEs places CLECs at a substantial cost disadvantage even when (as is often not the case) UNE rates have been properly set under TELRIC. While CLECs that use UNEs theoretically pay the same costs that the ILEC
12 13 14 15 16 17 18	A.	YOUR VIEW? Basic economic principles show that the ILECs' suggestion that the availability of UNEs might discourage CLECs from investing in their own facilities is nonsense. First, reliance upon UNEs places CLECs at a substantial cost disadvantage even when (as is often not the case) UNE rates have been properly set under TELRIC. While CLECs that use UNEs theoretically pay the same costs that the ILEC incurs in using the element, plus the same <i>pro rata</i> contributions to universal
12 13 14 15 16 17 18 19	A.	YOUR VIEW? Basic economic principles show that the ILECs' suggestion that the availability of UNEs might discourage CLECs from investing in their own facilities is nonsense. First, reliance upon UNEs places CLECs at a substantial cost disadvantage even when (as is often not the case) UNE rates have been properly set under TELRIC. While CLECs that use UNEs theoretically pay the same costs that the ILEC incurs in using the element, plus the same <i>pro rata</i> contributions to universal service support mechanisms, they face a series of additional costs that the ILEC

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1	For example, CLECs that use network elements face higher costs than the
2	incumbent, because the incumbents lack any incentive to cooperate with their
3	competitors, and indeed have extensive opportunities and incentives to
4	discriminate against them. These transaction costs (in legal, regulatory and
5	business settings) are incurred to enforce the nondiscrimination requirements of
6	the federal Act. CLECs also have higher unit marketing costs (and thus tighter
7	margins) because they must pry customers away from the incumbent LEC and
8	often must price below the incumbent in order to do so. ⁹⁹ CLECs further face the
9	risk that, if they ever show signs of making substantial competitive progress, the
10	incumbents assert their cost advantage and price their exchange and exchange
11	access services at levels that limit, or altogether preclude, effective CLEC mass
12	market entry. ¹⁰⁰ CLECs also face the risk that the essential regulatory
13	requirements on which their core business plans depend can be fundamentally
14	modified or eliminated merely because the composition or philosophy of
15	regulatory bodies has changed. ¹⁰¹
16	By contrast, when CLECs use their own facilities, they acquire control over their
17	costs, service offerings, and the sensitive information regarding their entry plans.
18	Moreover, they detach themselves from reliance on their competitors. In such

⁹⁹ See TRO, fn. 297.
¹⁰⁰ Id., para. 83.
¹⁰¹ All of these disadvantages exist on top of additional disadvantages that impose greater risks and higher capital costs on CLECs than the incumbent.

1		cases, if the economics are also right, they may have a long-term prospect of
2		competitive success. ¹⁰²
3		The reality is that UNE-P competition generally occurs only in circumstances in
4		which the only alternative for consumers is no competition at all - principally
5		because substitution of alternative CLEC facilities creates substantial economic
6		and technical entry barriers. Thus, if access to critical UNEs such as unbundled
7		switching is denied, CLECs will not, as the ILECs publicly argue, quickly shift to
8		serving those customers through the use of their own facilities. Rather, CLECs
9		will – and the ILECs well know – generally be compelled to stop serving those
10		customers altogether. Thus, elimination of UNE-P would not spur facilities
11		investment – it would hinder that investment.
12	Q.	IS YOUR VIEW ALSO SUPPORTED BY EVIDENCE IN THE
13		MARKETPLACE?
14	A.	Yes. All these points are abundantly confirmed by marketplace evidence. As
15		noted supra, requiring the monopoly Bells to provide UNEs to their competitors at
16		nondiscriminatory, cost-based rates is effectively the same process that

¹⁰² UNE Remand Order, ¶ 112 ("competitive LECs prefer to use their own facilities or alternatives outside the incumbent's network when they are able to do so, in order to reduce their reliance on a primary competitor," to avoid "disclos[ing] details about their customers to their chief competitor," and to "ensure the quality of their service and to offer products and pricing packages that differentiate their services from the perspective of end users"); *Cf.* TRO n. 1365 ("We found significantly more probative the evidence that in areas where competitors have their own switches for other purposes (e.g., enterprise switches), they are not converting them to serve mass market customers and instead relying on unbundled loops combined with unbundled local circuit switching. Given the fixed costs already invested in these switches, competitors have every incentive to spread the costs over a broader base. Their failure to do so bolsters our finding that significant barriers caused by hot cuts and other factors make such entry uneconomic.").

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1	successfully but gradually led to facilities-based competition in the long-
2	distance market. Before competitive long-distance service was authorized, the
3	long-distance market had been regarded as a natural monopoly. But that market
4	developed into a competitive one as entrants such as MCI and Sprint first used
5	resale to acquire a customer base over a number of years, then gradually built out
6	their networks, and eventually - after decades of effort - became facilities-based
7	competitors. Those resale opportunities produced enormous consumer benefits,
8	both in the short run (while the new entrants still acted principally as resellers)
9	and in the long run, once they completed their own networks. If, however, that
10	process had been cut short after only a few years - because, for example, the Bell
11	System had persuaded policymakers that competitive resale offerings were not
12	"real" competition, and that disallowing resale was the way to encourage MCI
13	and Sprint to build the facilities necessary for "real" competition - then the long-
14	distance market would likely still be a monopoly today. ¹⁰³
15	Two other elements were critical to the development of long-distance
16	competition, and are likewise instructive for the Commission's efforts to foster
17	comparable levels of competition in local markets. First, "equal access"
18	permitted customers to change long-distance carriers using efficient electronic
19	processes that did not create any of the delays, costs, and outages associated with
20	the manual hot cut process. Establishing an electronic means of loop access

¹⁰³ Moreover, even today, long-distance competitors are not full "facilities-based carriers," for they remain dependent on the ILECs' bottleneck local facilities to connect to customers.

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1	would generate the same type of benefit in today's local market. Second, the
2	local Bell operating companies were excluded from providing long-distance
3	service, so they had no incentive to impede competition among long-distance
4	carriers and, indeed, every incentive to encourage long-distance competition
5	and thus increase access revenues. That situation is obviously not applicable
6	today. Indeed, now that the RBOCs are ubiquitously allowed to provide long
7	distance service, they are actively using their ability to sell bundles to slow
8	CLECs' ability to win (or retain) their local customers. And, of course, the ILECs
9	are offering long distance services via a complete use of the network facilities of
10	the underlying wholesale provider, the very method they seek to prevent new
11	entrants from using to provide competitive local service.
12	The more recent history of CLEC investment likewise refutes any notion that
13	reduced UNE availability correlates with increased CLEC facilities investment.
14	For example, AT&T has invested heavily in facilities in states such as New York
15	and California, where AT&T has made extensive use of UNE-P to provide service
16	to customers. Most probatively, the marketplace evidence of the last six years
17	establishes that CLECs today - like the long-distance entrants of prior years - will
18	build wherever and whenever there is a basis for them to believe it will be
19	economic to do so.
20	CLECs have made massive investments in facilities. Indeed, these investments
21	are substantial enough that even the Supreme Court has dismissed the argument

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1	that the availability of TELRIC-priced UNEs impedes facilities-based
2	competition:
3 4 5 6 7 8 9 10 11 12 13 14 15 16	The entrants have presented figures showing that they have invested in new facilities to the tune of \$55 billion since the passage of the Act (through 2000) The incumbents do not contradict these figures, but merely speculate that the investment has not been as much as it could have been under other ratemaking approaches, and they note that investment has more recently shifted to nonfacilities entry options. We, of course, have no idea whether a different forward-looking pricing scheme would have generated even greater competitive investment than the \$55 billion that the entrants claim, but it suffices to say that a regulatory scheme that can boast such substantial competitive capital spending over a 4-year period is not easily described as an unreasonable way to promote competitive investment in facilities. ¹⁰⁴
17	In fact, the problem in the CLEC sector has not been <i>reluctance</i> to invest in
18	facilities, but excessive enthusiasm in doing so. The "build it and they will come"
19	approach was a sweeping failure. A large percentage of the CLEC sector has
20	petitioned for bankruptcy protection or been liquidated in bankruptcy. Many of
21	them are CLECs that self-provisioned switches and found themselves unable to
22	fill their switch capacity – such as e.spire, ICG Communications, Global
23	Crossing, McLeod USA, Mpower, Adelphia Business Solutions, Allegiance
24	Telecom, Focal Communications, ITC, Network Plus, WorldCom and XO
25	Communications. Of the three major data LECs, two (Rhythms and NorthPoint)
26	are out of business, and the third (Covad) restructured after a Chapter 11 filing.

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Verizon Communications, 535 U.S. at 516-17.

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1	Given the sheer numbers involved, the wave of CLEC bankruptcies and
2	liquidations cannot be explained away as a function of individually "bad"
3	business plans, or of "poor management" in particular companies. To the
4	contrary, many CLECs that were identified as having sound plans and strong
5	management suffered the same fate. Allegiance Telecom, McLeodUSA and XO
6	Communications, for example, were frequently identified by analysts as recently
7	as 2001 as survivors with experienced leadership or strong management. The
8	problem has been plainly systemic. The industry-wide collapse after 2000 reflects
9	the fact that many CLECs made the <i>mistake</i> of investing in facilities before they
10	had acquired enough customers to fill those facilities with enough traffic to
11	generate the revenues needed to make them profitable.
12	In Washington, the data also show that large-scale use of UNE-P did not reduce
13	the amount of CLEC investment in facilities. Exhibit JFF-2 is a chart showing
14	the number of resale, UNE-L and UNE-P lines in service in Washington from
15	December of 1999 until the end of 2002. ¹⁰⁵ Qwest did not report any UNE-P
16	lines in service until June 2001. As can be seen in Exhibit JFF-2, the number of
17	CLEC lines served via UNE-P has steadily increased since June of 2001. If one
18	believed that the advent of UNE-P would result in CLECs abandoning UNE-L
19	(facilities-based entry) for UNE-P then one would expect the UNE-L lines in
20	service to start decreasing as of June of 2001. An examination of Exhibit JFF-2

¹⁰⁵ Selected FCC Form 477 Data as of December 31, 1999, June 30, 2000, December 31, 2000, June 30, 2001, December 31, 2001, June 30, 2002 & December 31, 2002.

1		shows that instead of decreasing, the use of UNE-L lines has steadily increased.
2		Exhibit JFF-2 shows that as of June of 2001, it is the number of resale lines that
3		have steadily decreased. The empirical evidence in Washington shows that CLEC
4		use of UNE-P decreases not UNE-L usage, but resale usage.
5	Q.	WHAT DOES ALL THIS MARKET EVIDENCE SHOW?
6	A.	The market evidence teaches at least four centrally important lessons here. First,
7		CLECs do not need additional incentives to invest in facilities. Rather, they will
8		strain to do so - and err on the side of doing so - rather than use UNEs whenever
9		they believe the economics of investing are even close.
10		Second, the sound business model that successfully brought competition in the
11		long-distance market has not changed: carriers still need an opportunity to grow
12		into markets before they will be able to successfully build and use alternative
13		facilities.
14		Third, if facilities investment occurs prematurely, either because the market or the
15		regulatory context precludes them from filling their facilities with sufficient
16		traffic, the result will not be more facilities-based competition, but more business
17		failures by facilities-based competitors and less competitive choices for
18		consumers.
19		Fourth, the capital markets, fresh from recent experience, will not fund further
20		CLEC investment unless the economic case for doing so is especially compelling.

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1	Thus, any suggestion that CLECs or their potential investors would be encouraged
2	to commit more funds to building facilities if access to UNEs is withheld is either
3	naï ve or disingenuous, for it completely fails to appreciate that investment
4	decisions are necessarily driven by entirely different considerations. Those
5	considerations - in particular, the overriding superiority of providing competitive
6	service through alternative facilities rather than UNEs – means that the
7	availability of UNEs will not deter CLEC investments that are otherwise
8	economic.
9	A recent study by the Phoenix Center confirms these conclusions. ¹⁰⁶ PHOENIX
10	CENTER POLICY BULLETIN NO. 4 examined the FTA's general effect on investment
11	by telecommunications firms. Using publicly available government data on
12	investment by telecommunications firms, Phoenix Bulletin No. 4 quantifies the
13	substantial and sustained increases in investment by telecommunications firms
14	immediately following the 1996 Act and continuing through 2001. Those
15	statistics indicate that the 1996 Act led to an additional \$267 billion in
16	telecommunications investment from 1996 through 2001. This evidence is
17	completely consistent with the conclusion that the 1996 Act increased capital
18	spending in the telecom sector. Taken together, history demonstrates that the
19	ILECs' theory of incentives is exactly backwards. UNEs do not discourage
20	investments in facilities; they enable such investments, making effective

¹⁰⁶ PHOENIX CENTER POLICY BULLETIN NO. 4: *The Truth About Telecommunications Investment* (June 24, 2003) (available at http://www.phoenixcenter.org/PolicyBulletin/PolicyBulletin4Final.pdf).

1		competition possible. Similarly, a study on telecommunications investment since
2		the FTA concluded, "unbundling of ILEC networks promotes competition, and
3		thereby stimulates investment in telecommunications infrastructure by
4		incumbents and entrants alike." ¹⁰⁷ In this study, the authors examined the theories
5		that: 1) UNE-P discourages CLEC and ILEC investment in facilities and 2) UNE-
6		P encourages CLEC and ILEC investment in facilities. After examining both
7		theories, it was concluded, "both the theoretical, and especially the empirical
8		analysis provide a strong refutation of the ILEC argument that mandatory
9		unbundling provisions deter ILEC and CLEC investment."108
10	Q.	HOW WILL GRANTING NEW ENTRANTS ACCESS TO UNEs
11		INCREASE THE ILECs' INCENTIVES TO UPGRADE THEIR
12		NETWORKS?
13	A.	The second half of the ILECs' incentives theory – that existing unbundling
14		obligations impair their own incentives to invest in network facilities - is equally
15		baseless. As a preliminary matter, it is not reasonable to expect that Qwest or any
16		other ILEC would base investment decisions on unbundling demand, when

 ¹⁰⁷ Stimulating Investment and the Telecommunications Act of 1996, Robert D. Willig (Professor of Economics and Public Affairs, Princeton University), William H. Lehr (Research Associate, Center for Technology, Policy and Industrial Development and Associate Director, MIT Research Program on Internet & Telecoms Convergence; Massachusetts Institute of Technology), John P. Bigelow (Economist, Princeton Economics Group), Stephen B. Levinson (Economist, formerly with AT&T), October 11, 2002, p. 1.
 ¹⁰⁸ Id.

1	lines, ¹⁰⁹ and the "Big Three" Bells only constitute 11 percent of total business and
2	consumer lines. ¹¹⁰
3	While the Bells have sought to pin the cause of their shrinking capital
4	expenditures in recent quarters on unfavorable regulatory conditions, in reality
5	these reductions have largely been driven by considerations typical of any capital
6	budgeting process. As a general rule, capital budgets are determined as a
7	percentage of anticipated revenues and other demands for cash flow, such as
8	dividends and debt management. A number of forces have converged to put
9	pressure on the Bells' cash position, including generally weak economic
10	conditions, pressure on prices from increased competition, migration of traffic to
11	competing technologies, and a shift in the service mix from high margin local
12	services to lower margin long distance and broadband services.
13	Indeed, of the 1.8 million retail lines lost (on a base of 126.6 million retail lines)
14	by the "Big Three" Bells between the second and third quarter of this year, less
15	than half (840,000) were due to UNE-P (or resale) competition. Notably, a
16	significant share of these non-UNE losses were actually lines migrating to other
17	services offered by the Bells. As SBC recently noted,
18	

 ¹⁰⁹ Qwest Press Release, Qwest Communications Reports Third Quarter 2003 Earnings Per Diluted Share of \$1.05, November 19, 2003, Attachment D, (available at http://www.quest.com/about/media/pressroom/attachments/3Q03AttachmentD.pdf.
 ¹¹⁰ As of September 30, 2003, BellSouth, SBC, and Verizon had 14.8 million wholesale lines

¹¹⁰ As of September 30, 2003, BellSouth, SBC, and Verizon had 14.8 million wholesale lines (resale and UNE) out of a total of 139.6 million local business and consumer lines (including ISDN lines, but excluding digital data services such as DS0, ADSL, DS1, and DS3 and higher.

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1 2 3 4 5 6 7 8	[O]ne point that we don't want to overlook and has not been said is we are driving some of this access line reduction ourselves with an increase on the DSL side. And that's a good thing for us. And that's important to remember the disconnect rate is not as bad as it appears because we are moving some of that into DSL. We are also moving some of it to our wireless company, which is a good thing. And so you must be careful when you look at total voice disconnect, something that is going into other lines. ¹¹¹
9	The upshot is that the Bell's "losses" are unlike competitive losses in most other
10	industries. For example, whereas a customer lost in the airline, automobile or
11	trucking industry is likely to flow directly to the bottom line, the Bells' losses are
12	in large measure nothing more than a change in service mix. The Bell's continue
13	to derive revenues and contribution to costs from a vast majority of these "lost"
14	customers, and as competition continues to drive monopoly margins out of the
15	local business, the Bell's will become even more agnostic as to which services
16	they migrate to – as long as they stay on the Bell network in one fashion or
17	another.
18	A study by Morgan Stanley found that historically the Bells have reinvested
19	"roughly 19% of revenues" in capital projects. Significantly, the report doubted
20	"whether the Bells could spend greater capital in their businesses even if they
21	wanted to," arguing: (1) long distance is not a capital intensive business since the
22	Bells lease wholesale capacity from interexchange carriers rather than build their
23	own networks, (2) most of the Bell's DSL infrastructure investment has already
24	been made, and (3) there is little need for additional Bell switching capacity due

¹¹¹ Randall Stephenson, SBC CFO, 2Q03 Analyst Call, July 24, 2003.

1	to access line declines. It predicted that fiber spending would be limited to
2	current budgets, but could possibly be accelerated based on current tax incentives
3	that will expire in 2005. ¹¹²
4	Notably, some ILECs, as well as prominent analysts in the investment
5	community, disagree with the claim that UNE-P lessens investment incentives by
6	the ILEC. For instance, Ivan Seidenberg, the Chairman of Verizon, has explained
7	that phasing out UNE-P would not increase his company's capital expenditures. ¹¹³
8	Similarly, JP Morgan has advised its clients that even if UNE-P were eliminated,
9	such a ruling "should have little to no impact on carrier spending at the large
10	integrated equipment vendors" such as Lucent and Nortel. ¹¹⁴
11	In fact, the evidence is to the contrary: the availability of UNEs provides ILECs
12	with powerful incentives to upgrade their local networks. That is because UNEs
13	enable CLECs to deploy their own facilities, which in turn creates the greatest
14	possible incentive for ILEC investment and deployment. If anything, the
15	availability of UNE-P increases ILEC incentives to build because UNE-P is a
16	precursor to facilities entry by CLECs.

 $^{^{112}\,}$ Telecom Services: To Spend or Not To Spend, That is the Taxing Question. Morgan

Stanley, October 16, 2003
 ¹¹³ Seidenberg: UNE-P Phaseout Won't Spur Immediate Boost In Verizon's Spending: <u>Telecommunications Reports</u>, February 4, 2003.
 ¹¹⁴ JP Morgan, Communications Equipment Advisory, January 16, 2003.

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1	This trend is also confirmed by a recent study by the Phoenix Center. ¹¹⁵ Its Policy
2	Bulletin No. 5 concludes that the RBOCs invest significantly more in states where
3	UNE-P competition is further developed. Using publicly available FCC data, the
4	study found a <i>positive</i> relationship between UNE-P competition and BOC average
5	net investment. According to the study, each UNE-P access line increased BOC
6	average net investment by \$759 per year, or about 6.4 percent per year in the
7	aggregate. While BOC net investment fell in general by about 7 percent in 2002,
8	investment dollars were more heavily allocated to states with greater levels of
9	UNE-P competition, and this additional investment offsets the total decline in
10	investment by about 50 percent. Notably, other forms of competitive entry, such
11	as UNE-L and Total Service Resale, had no statistically significant effect on BOC
12	investment.
13	In short, an examination of the data shows that, if anything, the possibility of
14	UNE-based entry in a state increases the ILECs' incentives to invest in additional
15	telecommunications plant in the state.

¹¹⁵ See Phoenix Center Policy Bulletin No. 5, Competition and Bell Company Investment in Telecommunications Plant: The Effects of UNE-P (July 9, 2003).

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IV. **DEFINING THE GEOGRAPHIC MARKET FOR MASS** 2 MARKET UNBUNDLED LOCAL SWITCHING

3 Q. WHAT IS THE PURPOSE OF THE "GEOGRAPHIC MARKETS" THAT ARE 4 THE SUBJECT OF THIS PHASE OF THE PROCEEDING?

5 A. In the TRO, the FCC asked that state commissions determine whether the

6 conditions in their state would warrant a reversal of the FCC's finding of national

impairment.¹¹⁶ As part of the State's review of whether there are any 7

8 "exceptions" to the national finding of impairment, the TRO describes an "actual

9 deployment" test (i.e., a trigger analysis, which is best thought of in terms of an

10 "actual *competition*" test) and, if requested by the ILEC, a "potential

11 deployment/competition" analysis. In order to conduct either analysis, the state

12 must determine the geographic area in which it will conduct its examination.

13 The "geographic markets" that the Commission seeks to establish here are best

14 viewed as "impairment evaluation zones," for that is the singular purpose to

15 which they will be put.¹¹⁷ This is not the same exercise as defining a market as an

16 economic abstraction; its sole purpose is to facilitate a state commission's

17 evaluation of the extent of competition made possible with access to a network

18 element, and to *contrast* that competition to the competition that would result if

1

¹¹⁶ TRO ¶ 516.

¹¹⁷ See, for instance, ¶ 495: "State commissions must first define the markets in which they will evaluate impairment by determining the relevant geographic area to include in each market." Defining the geographic area from the perspective of impairment is exactly how the FCC drew the relevant geographic markets for loops and transport (footnote 1536, emphasis added).

1		access to that element were denied. ¹¹⁸ By comparing the competitive profiles of
2		alternative entry strategies (for instance, by contrasting the competitive profiles of
3		UNE-P to UNE-L), the Commission can evaluate whether measures of actual
4		competition (i.e., triggers) or models of potential competition (i.e., the potential
5		deployment) ^{119} – demonstrate that the national finding of impairment is not
6		appropriate for the state of Washington.
7	Q.	HOW DOES THE CONCEPT OF "GEOGRAPHIC MARKET" FACTOR INTO
8		THE IMPAIRMENT ANALYSIS FOR UNBUNDLED MASS MARKET LOCAL
9		SWITCHING?
10	A.	The focus of all the unbundling analyses, whether under a trigger or potential
11		deployment test, is on competitive entry in a particular geographic area-what I
12		have characterized as an "impairment evaluation zone"—in the absence of
13		unbundled switching. As discussed above, the FCC made a national finding of
14		impairment with respect to mass market local switching. Any challenge to that
15		national finding must be made with reference to specific geographic areas.
16		Recognizing that state commissions are in a superior position to gather and assess
17		the data and information necessary to define the geographic areas to be used for

¹¹⁸ Of course, if competitive activity would significantly decline as a result, then a significant impairment must be present that is being corrected through the entrant's access to the network element in question. ¹¹⁹ Under the TRO, the same geographic area used by the Commission for its trigger analysis must also be used in the potential deployment phase of the proceeding (if any). Thus, the area should reflect how CLECs *actually* serve customers and be consistent with how CLECs would *potentially* serve customers as well. This "dual purpose" presents something of a dilemma, in that the information needed to fully evaluate a potential deployment scenario is different from the information needed to evaluate actual, existing competition.

	making impairment findings, the FCC delegated the assignment of defining those
	areas to the states. ¹²⁰
Q.	WHAT FACTORS SHOULD THE COMMISSION CONSIDER IN SELECTING
	THESE "IMPAIRMENT EVALUATION ZONES?"
А.	The Triennial Review Order identifies many factors to be taken into consideration
	in the Commission's selection of such geographic areas. Those factors include:
	• the locations of customers actually being served (if any) by
	competitors;
	• the variation in factors affecting competitors' ability to serve each
	group of customers;
	• competitors' ability to target and serve specific markets
	economically and efficiently using currently available
	technologies;
	• how competitors' ability to use self-provisioned switches or
	switches provided by a third-party wholesaler to serve various
	groups of customers varies geographically;
	• how the number of high-revenue customers varies geographically;
	• whether a competitor's switch serves every part of the market; and
	• suitability of a state's existing conventions defining geographic
	Q. A.

¹²⁰ TRO, ¶¶ 493 & 495 and n. 1537.

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1		• areas for other purposes. ¹²¹
2	Q.	WHAT OTHER GUIDANCE DOES THE TRIENNIAL REVIEW ORDER
3		PROVIDE AS TO HOW THESE GEOGRAPHIC AREAS SHOULD BE
4		DEFINED?
5	A.	The only bounds that the FCC has placed on the state's discretion in determining
6		the geographic contours of an impairment evaluation zone (or "market") is that
7		the area must be less than the entire state. At the same time, it must not be so
8		small that a competitor serving that market alone could not take advantage of
9		available economies of scale and scope that might follow with selection of a
10		larger area. ¹²² Additionally, of course, a state commission must use the same
11		definition for all of its analyses. ¹²³
12	Q.	IS THE INFORMATION NECESSARY TO CORRECTLY ESTABLISH
13		IMPAIRMENT ZONES READILY AVAILABLE?
14	A.	Some information is readily available (at least to Qwest), while other information
15		is not. The baseline information most critical to determining appropriate
16		impairment evaluation zones at least as a starting point is "the locations of
17		customers actually being served (if any) by competitors." The pattern of
18		customers being served by unbundled local switching - in particular, the pattern

¹²¹ *TRO*, ¶¶ 495-497. ¹²² "While a more granular analysis is generally preferable, states should not define the market alone would not be able to take advantage of The a more granutar analysis is generally preterable, states should not define the market so narrowly that a competitor serving that market alone would not be able to take advantage of available scale and scope economies from serving a wider market." *Id.* ¹²³ *Id.*

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1	of the most <u>recent</u> competitive activity – is perhaps the most useful indicator of
2	the geographic area in which to conduct an impairment analysis.
3	Other information may be more difficult to acquire. For instance, determining the
4	"variation in factors affecting competitors' ability to serve each group of
5	customers" and the "competitors' ability to target and serve specific markets
6	economically and efficiently using currently available technologies" require (at
7	least potentially) more detailed information, including (perhaps) economic
8	modeling. Consequently, it may be appropriate that the Commission identify a
9	tentative area for analysis, while leaving open the parties' ability to propose
10	alternatives during the course of these proceedings, as additional information
11	becomes available.
12	The key, however, is having sufficient information to develop a competitive
13	profile of UNE-P that documents the pattern of entry made possible by this entry
14	strategy. UNE-P exhibits a very distinct geographic profile – that is, it and it
15	alone is able to extend competition quickly throughout a region. Thus, it is
16	appropriate that the Commission define applicable "geographic areas" that allow
17	it to recognize the unique competitive signature of UNE-P and test it against other
18	entry strategies. If it appears that only UNE-P can sustain the competition levels
19	throughout the defined area, then it is clear that competitors would be impaired if
20	mass market switching were not available as an unbundled element in that area.

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Q.	SHOULD THE COMMISSION DEFINE THE GEOGRAPHIC AREAS IT WILL
	USE BEFORE IT COMPLETES THE DATA GATHERING AND ASSESSMENT
	NECESSARY TO THE IMPAIRMENT ANALYSIS?
A.	No. The factors the FCC instructs state commissions to review in settling on
	geographic areas within which to conduct an impairment analysis substantially
	overlap with the data that must be reviewed in applying the triggers and in
	conducting a full scale "potential deployment" analysis. For example, the
	Commission will need to look at where switch-based carriers are providing
	services and where competitors are using their own switches on a wholesale
	basis, ¹²⁴ as part of the process of defining the appropriate geographic areas,
	applying the triggers, and conducting a full scale impairment analysis. As a
	result, a "bifurcated" approach that attempts to define the review areas upfront
	and defer a judgment on impairment until later is premature and illogical.
	Similarly, collapsing a geographic definition and trigger analysis into one
	proceeding, with a separate "full impairment" case scheduled later, raises the
	same risks, particularly in light of the FCC's admonition that the states must use
	the same areas in each analysis.
Q.	IS IT POSSIBLE TO DEFINE THE APPROPRIATE GEOGRAPHIC AREAS FOR
	ANALYSIS WITHOUT FACT GATHERING AND ANALYSIS?
A.	No. A properly designed process for defining the relevant geographic areas is
	necessarily dynamic and fact intensive. If a one-size-fits-all approach had been
	Q. A. Q. A.

¹²⁴ Id. n. 1536.

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1		appropriate, the FCC would presumably have drawn those boundaries itself.
2		Instead, it chose not to deal in high-level abstractions, recognizing that defining
3		geographic boundaries for purposes of studying impairment is a function that
4		requires a study of a variety of factors. These factors have to come together in a
5		way that makes sense in individual states and even in distinct areas within a single
6		state.
7	Q.	BUT IS YOUR PROPOSED "NON-BIFURCATED" APPROACH HERE
8		CONSISTENT WITH THE FCC'S DIRECTION THAT "[S]TATE COMMISSIONS
9		MUST FIRST DEFINE THE MARKETS IN WHICH THEY WILL EVALUATE
10		IMPAIRMENT BY DETERMINING THE RELEVANT GEOGRAPHIC AREA TO
11		INCLUDE IN EACH MARKET." ¹²⁵
12	A.	Yes. The FCC's statement that state commissions "must first define the markets"
13		recognizes the logical sequencing of the decision-making process. Commission
14		decisions regarding the continued availability of unbundled switching for service
15		of mass market customers will need to be made on the basis of an impairment
16		analysis in specifically defined areas. The FCC's direction does not literally
17		mean, however, that the analytical process of defining those geographic areas
18		should be separated in <i>time</i> from its impairment decisions.
19		This sort of logical sequencing is evident in other FCC decision-making contexts.
20		For example, even though the FCC commonly refers to defining the applicable

¹²⁵ Id.

1		geographic markets as the "first step" in analyzing proposed mergers, 126 it does
2		not bifurcate such proceedings. Instead it makes all of its decisions in a single
3		order that "first" determines the applicable geographic markets it will use and
4		then analyzes the proposed merger in light of its impact in those defined areas.
5	Q.	HOW DOES THE TRIENNIAL REVIEW ORDER'S APPROACH TO DEFINING
6		A MARKET COMPARE WITH THE MARKET ANALYSIS USED IN AN
7		ANTITRUST LAW CONTEXT?
8	A.	As I mentioned previously, the geographic areas to be defined here have a single,
9		specific purpose, namely to evaluate whether and to what extent new competitors
10		are impaired in their efforts to enter the market. That is why I initially
11		characterized these areas as "impairment evaluation zones." ¹²⁷ While I am not an
12		attorney, my understanding of antitrust law is that in an antitrust case, the concern
13		is to evaluate whether a firm has market power, and in that context, antitrust
14		policy provides guidance for how a market should be defined. While it is related
15		to the questions at issue here, the traditional antitrust approach is not fully
16		applicable to the specialized regulatory analysis mandated by the TRO. So for
17		example, the Department of Justice's Horizontal Merger Guidelines ("HMGs")
18		are not applicable here. Although they are useful in defining a market for

 ¹²⁶ In the matter of the Merger of MCI Communications Corporation and British Telecommunications PLC, GN Docket No. 96-245, FCC 97-302, Adopted: August 21, 1997, Released: September 24, 1997, ¶ 35) ("[T]he first step in analyzing a merger is to define the relevant product and geographic markets.")
 ¹²⁷ For a further discussion of the interplay and distinctions between market definitions based

¹²⁷ For a further discussion of the interplay and distinctions between market definitions based on pure economic theory and the definition of study areas relevant to the impairment analysis, *see* the testimony of Lee Selwyn and William Lehr.

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1		antitrust purposes, their focus is not on impairment per se, but rather on the extent
2		to which the prices for two goods are responsive to each other and the ability of
3		the target firm to raise its price without attracting substantial entry into the market
4		from competitors. The concern in the HMG case is to identify the smallest
5		market area over which the target firm may possess an ability to set prices
6		substantially above costs. That is not the focus here. While ILEC market power
7		is an important policy concern, the goal of this proceeding is to determine whether
8		CLECs are impaired in their efforts to serve mass market customers if they are
9		denied access to switching as an unbundled network element. ¹²⁸
10		However, both here and in the antitrust context, the process of choosing a
11		geographic market must make sound economic sense. Antitrust law follows "a
12		pragmatic, factual approach to the definition of the relevant market and not a
13		formal, legalistic one. The geographic market selected must, therefore, both
14		'correspond to the commercial realities' of the industry and be economically
15		significant." ¹²⁹ Similarly, every aspect of the impairment analysis, including the
16		definition of the relevant "geographic markets," must be economically rational.
17		In the impairment context, as in antitrust law, such areas cannot be defined in a
18		vacuum.
19	Q.	DO ANY CURRENTLY RECOGNIZED GEOGRAPHIC ZONES FIT THE
20		ANALYSIS CALLED FOR IN THE TRIENNIAL REVIEW ORDER?

¹²⁸ For this reason, the FCC rejected use of the HMG in conducting its impairment analysis (TRO ¶ 109). ¹²⁹ Brown Shoe Co. v. United States, 370 U.S. 294, 336-37, 82 S.Ct. 1502, 1530 (1962).

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1	A.	There are several possibilities here, and I will discuss two specifically, namely the
2		use of a LATA as a defined zone, and the use of the existing ILEC service
3		territory. However, let me begin by saying that it is certainly true that none of the
4		recognized geographic zone definitions in use today was adopted to reflect all of
5		the factors that the FCC instructs state commissions to consider in defining the
6		geographic areas for which they will make their mass market switching analyses.
7		In particular, those pre-existing concepts were not conceived with a view as to
8		where switch-based competitive carriers are actually serving, or could serve, mass
9		market customers. Nonetheless, as the FCC recognized, there may turn out to be
10		overlap in the boundaries used to apply conventional or historical concepts, and
11		those that may be properly drawn pursuant to the factors identified in the FCC's
12		Order. The Order clearly does not suggest, however, that there is a single concept
13		that can be used automatically across the board and across all states for the
14		purposes of making impairment decisions.
15		It should be noted that, while the FCC has said that a geographic market should be
16		less than the entire state in size, it is clear that one of the goals of the Act is to
17		encourage broad competition throughout an entire state. For instance, the Act
18		fundamentally judges whether local markets are open (in Section 271) on a state-
19		by-state basis:
20 21 22 23		The requirement of an operational competitor is crucial because whatever agreement the competitor is operating under must be made generally available throughout the State. Any carrier in another part of the State could immediately take advantage of the

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1 2 3 4 5 6		"agreement" and be operational fairly quickly. By creating this potential for competitive alternatives to flourish <u>rapidly throughout</u> <u>a State</u> , with an absolute minimum of lengthy and contentious negotiations once an initial agreement is entered into, the Committee is satisfied that the "openness and accessibility" requirement is met. ¹³⁰
7		Despite Congress' selection of the state as the "baseline" analytical unit in section
8		271 of the Act to determine whether local markets are open, the FCC
9		affirmatively prohibits states from using the entire state to evaluate impairment. ¹³¹
10	Q.	HOW SHOULD THE GEOGRAPHIC AREAS BE SIZED FOR PURPOSES
11		OF CONDUCTING A MASS MARKET UNBUNDLED SWITCHING
12		IMPAIRMENT ANALYSIS?
13	A.	The FCC states that the same geographic market definition should be used both
14		when applying the trigger analysis and when conducting the full review of
15		operational and economic impairment. ¹³² In the full-scale "potential deployment"
16		analysis, state commissions are asked to conduct "a business case analysis for an
17		efficient entrant." ¹³³ In that context, the boundaries of the impairment study area
18		may then reasonably correspond to the assumed entry area of the hypothetical,
19		efficient CLEC that will serve mass market customers using its own switch. This
20		approach is consistent with FCC guidance that the geographic area should be

¹³⁰ Ameritech Michigan Order, Federal Communications Commission, CC Docket 97-298, Footnote 169, citing House Report, emphasis added. ¹³¹ The FCC never explains why Congress asked it to judge whether barriers to competition

have been removed on a state-by-state basis, but that state commissions should be precluded from using a state-by-state approach to judging impairment. 132 TRO, ¶ 495. 133 Id. n. 1579.

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1	sized to allow the CLEC "to take advantage of available scale and scope
2	economies from serving a wider market." ¹³⁴
3	Under this standard, it is unlikely that the "efficient CLEC" would enter a state
4	intending to serve only a single wire center. Rather, the model CLEC, would
5	likely map out a footprint that is large enough to permit it to realize necessary
6	economies of scale and permit it to market to a broad range of potential
7	customers. In most cases, this will be as large as a LATA, or perhaps an ILEC's
8	entire service territory within a state, while in other cases it may be only a portion
9	of such an area, depending on the local demographics. It is clear, however, when
10	reviewing CLEC entry strategies, that an entrant logically will initially seek to
11	serve customers in more urban parts of a market where more customers reside in
12	order to "get its feet wet" in the market and develop a customer base that will
13	allow it to generate funds that will allow it to enter other areas in the state.
14	Therefore, it makes economically rational sense to view the market more broadly,
15	and as a larger area, rather than a more confined area. Notably, if UNE-P were
16	eliminated in an urban wire center, the trickle down effect may likely be not only
17	removal of a competitor from that wire center, but from a much broader area of
18	the state. Hence, both the way CLECs enter and the way they are likely to exit if
19	UNE-P is eliminated, make it economically rational to define the market area as
20	larger rather than smaller. However, in light of the above discussion of triggers, it

 134 Id. ¶ 495.

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1		is only reasonable to use a market definition of this size if the Commission both
2		develops appropriate criteria for its trigger analysis and also applies them
3		throughout the entire area that the efficient CLEC is assumed to enter. If it does
4		not do so, then the Commission runs a substantial risk that it will misapply the
5		triggers and reach conclusions that are irrational and that fail to protect
6		consumers.
7	Q.	ONCE THE "IMPAIRMENT EVALUATION ZONE" HAS BEEN DEFINED, IS IT
8		NECESSARY THAT ALL QUALIFYING SELF-PROVIDERS AND/OR
9		WHOLESALERS SERVE CUSTOMERS THROUGHOUT THE DEFINED ZONE
10		IN ORDER FOR THE TRIGGERS TO BE MET?
11	A.	Yes. As explained below in the discussion of triggers, if the defined review area
12		includes locations where the requisite number of qualifying competitors are not
13		actively serving mass market customers (residential and small business) over their
14		own switches, then the self- provisioning trigger is not met. Similarly, if the
15		defined geographic area includes locations where qualifying wholesalers are not
16		currently providing switching capacity, or where those wholesalers are unable or
17		unwilling to serve all competing providers in their delivery of voice grade service
18		to the mass market, then the wholesaler triggers likewise have not been met. In
19		either instance, actual experience shows that carriers have been unable to
20		overcome the nationally-identified operational and economic impairments and
21		provide competitive alternatives that do not require access to unbundled switching
22		and UNE-P.

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1		If the Commission uses any less exacting standard in applying the FCC triggers,
2		the results will not be "economically rational" ¹³⁵ and consumers will be left
3		unprotected from the risks of ILEC pricing discrimination and other predatory
4		conduct.
5		The requirement that the existing footprint of each self-provider (or wholesaler)
6		should substantially overlap is consistent with the rules which the FCC adopted
7		governing the trigger analysis. Specifically, Rule 51.319 (d)(iii)(A)(1) requires
8		that, in order to conclude that the self-provisioning trigger has been met, a state
9		commission must first find that three or more competing providers "each are
10		serving mass market customers in the particular market with the use of their own
11		local switches." Similarly, in order to conclude that the third-party wholesaler
12		trigger is met, the state commission must find two or more unaffiliated
13		wholesalers offering local switching to competing providers "in that market"
14		using their own switches. 47 C.F.R. § 51.319 (d)(iii)(A)(2) (emphasis added).
15		Neither rule sanctions a finding of nonimpairment under the trigger analysis when
16		a self-provider or wholesaler is serving only a portion of the defined market.
17	Q.	DID THE FCC'S ERRATA, WHICH AMENDED PARAGRAPH 499 AND
18		RELATED PROVISIONS, ALTER THE REQUIREMENT THAT SELF-
19		PROVIDERS SERVE MASS MARKET CONSUMERS THROUGHOUT THE
20		DESIGNATED GEOGRAPHIC AREA?

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1	A.	No. As discussed below in connection with application of the trigger analysis, the
2		FCC's Errata clarified language that the incumbents had tried to stretch to the
3		absurd proposition that any qualifying self provider must be so large that it is
4		effectively a "second carrier of last resort", <i>i.e.</i> , large enough to serve each and
5		every customer within the geographic market. ¹³⁶ In rectifying this perceived
6		ambiguity in the original language, the FCC did not at all modify the requirement
7		that each qualifying self-provider must actively serve mass market customers in
8		the designated geographic area. ¹³⁷ Nor did the Errata change the requirement that
9		third-party wholesalers must be operationally ready and capable of meeting the
10		needs of all competing providers serving mass market customers within the
11		geographic market. Indeed, the ILECs themselves have argued elsewhere that
12		"errata" are used to correct ministerial errors, not to make substantive changes to
13		an order, ¹³⁸ emphasizing that the unexplained deletions made by the FCC's Errata
14		did not radically change the standards a state commission should use when
15		applying a trigger.

¹³⁶ The ILEC argument that the original language of the *Triennial Review Order* required each self provider to have sufficient capacity to serve each and every customer in the designated area was raised in mandamus proceedings before the District of Columbia Court of Appeals. *See, e.g.*, Verizon Mandamus Pet. at 8, 23-24 (filed Aug. 28, 2003); Joint BOC Mandamus Pet. at 13, 20-21 (filed Aug. 28, 2003).

 $^{^{137}}$ Under the full review of impairment, when evidence exists that a competitor is serving mass market customers with its own switch, the FCC instructs the states to consider whether the "entire market" could be served by this switch. *Id.* ¶ 510.

¹³⁸ See, e.g., Ex Parte Letter from Joseph Mulieri, Verizon, to Marlene Dortch, FCC (filed CC Docket 94-157, July 21, 2003), found at

http://gullfoss2.fcc.gov/prod/ecfs/retrieve.cgi?native or pdf=pdf&id document=6514286634.

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1	Q.	IS A REQUIREMENT THAT ALL THREE SELF-PROVIDERS BE ACTIVELY
2		PROVIDING SERVICE THROUGHOUT THE GEOGRAPHIC MARKET USING
3		THEIR OWN SWITCHES CONSISTENT WITH THE TRIGGER ANALYSIS
4		ITSELF?
5	А.	Yes. As explained below, the mere existence of competitors that provide their
6		own switching in only limited portions of a defined geographic area - or only to
7		limited numbers or types of customers in that area does not demonstrate that
8		customers throughout the whole defined area will have access to multiple switch-
9		based competitors. Thus, it would be unreasonable – indeed irrational – to find a
10		trigger is met if the carriers being evaluated do not provide service generally to all
11		types of customers, of all revenue levels, throughout the entire defined geographic
12		study area.
13	Q.	SHOULD THE COMMISSION USE METROPOLITAN STATISTICAL
14		AREAS (MSAS) TO EVALUATE IMPAIRMENT?
15	A.	No, I do not believe that MSA boundaries are the best approach. First, the
16		purpose of this exercise is to judge whether CLECs would be impaired without
17		access to unbundled local switching to provide voice service (more
18		conventionally known as POTS) to "mass market" customers. ¹³⁹ This is a
19		telecommunications-specific issue that should be structured to consider
20		telecommunications-specific information.

¹³⁹ It is useful to point out that the impairment analysis for Qwest's territory does not determine *whether* local switching will be available. As a Regional Bell Operating Company (RBOC), Qwest has accepted an independent obligation outlined by the "social contract" of section 271's competitive checklist to offer

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1		MSA boundaries do not consider any of the following important criteria relating
2		to impairment:
3		* Qwest's network configuration;
4		* LATA boundaries;
5		* NXX code assignment;
6		* Retail pricing;
7		* Qwest's costs;
8		* CLEC costs;
9		* Switch locations;
10		* Ported number volumes; or
11		* UNE costs.
12		That fact alone suggests that the area ultimately chosen by the Commission
13		should be easily defined by its telecommunications components, rather than
14		census or political boundaries. Moreover, as noted below, not all wire centers
15		map to MSA boundaries.
16	Q.	ARE LATAS REASONABLE PROXIES FOR MSAS IN ANY EVENT?
17	A.	Yes. LATAs were first drawn to identify distinct local markets, with one of the
18		guidelines being that no LATA should include more than one MSA. ¹⁴⁰ LATA
19		boundaries conform to wire center boundaries, so it is not necessary to address

unbundled local switching (at least as so long as it desires to offer long distance services in its territory) at rates that are "just and reasonable and nondiscriminatory" and which provide entrants "meaningful access" (TRO \P 603). Thus, the pricing issue raised by this obligation is key to the notion of impairment. It is useful, however, for the Commission to understand that its impairment analysis will not change Qwest's continuing obligation to offer unbundled local switching under section 271.

¹⁴⁰ U.S. v. American Tel. & Tel. Co., et al., 552 F.Supp. 131 (D.D.C. 1982), at p. 229 ("'Exchange area,' or 'exchange' [the two terms initially used to describe Local Access and Transport Areas] means a geographic area established by a BOC in accordance with the following criteria: ...3. no such area which includes part or all of one standard metropolitan statistical area...shall include a substantial part of any other standard metropolitan statistical area..., unless the Court shall otherwise allow....") See also generally U.S. v. Western Electric Co., and AT&T, 569 F.Supp. 990 (D.D.C. 1983), at 993-1002.
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1		wire centers that straddle MSA boundaries. Moreover, LATAs have the
2		advantage of including all of Qwest's wire centers, while MSA boundaries may
3		not. In this regard, an MSA-approach automatically creates a "residual market"
4		comprised of all those exchanges that are not part of a MSA. This "forgotten
5		market" must comply with the FCC's requirement that no area be so small "that
6		a competitor serving that market alone would not be able to take advantage of
7		available scale and scope economies from serving a wider market." ¹⁴¹
8		Because MSAs were established without any consideration of wire center
9		boundaries, attempting to map wire centers into the MSA framework produces
10		overlaps and gaps with LATA boundaries. As a result, LATA boundaries may
11		well provide a <i>simpler</i> approach, by eliminating the need to assign or exclude
12		peripheral wire centers, as well as including more rural wire centers as part of the
13		broader mass market.
14	Q.	CAN YOU SUMMARIZE THIS PORTION OF YOUR TESTIMONY?
15	A.	The central purpose here is to identify "impairment evaluation zones" within
16		which to conduct a further analysis of the impairments to mass market
17		competition solved by unbundled local switching. As explained above, the
18		hallmark of UNE-P is its geographically broad reach, which makes it the only
19		entry strategy with a pattern of activity that matches the mass market. But
20		whatever geographic area the Commission ultimately settles on for its impairment

¹⁴¹ TRO ¶ 495.

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1		analysis, it should not lose sight of the most important fact: only UNE-P works at
2		a scale and scope that is necessary to support mass market competition throughout
3		Washington.
4 5		V. <u>ESTABLISHING THE CROSSOVER POINT BETWEEN THE</u> <u>MASS MARKET AND THE ENTERPRISE MARKET.</u>
6		A. SUMMARY
7	Q.	WHAT IS THE CROSSOVER POINT THAT YOU RECOMMEND THIS
8		COMMISSION ADOPT?
9	A.	I recommend that the commission adopt a cross over point of 12 lines.
10	Q.	HOW DID YOU ARRIVE AT THIS CONCLUSION?
11	А.	I arrived at this conclusion by determining where it made economic sense for a
12		CLEC to serve a multi-line plain old POTS customer using a DS1 based service
13		rather than using UNE-P. In performing the analysis to arrive at that conclusion, I
14		identified all of the costs that are incurred when serving a multi-line POTS
15		customer with a DS1 based service and divided that total cost by the cost of a
16		single UNE-P line. The result of that calculation rounded up to the next whole
17		number is the cross over point.
18		B. INTRODUCTION
19	Q.	PLEASE IDENTIFY THE FUNDAMENTAL CROSS OVER POINT ISSUE
20		THE FCC ASKED STATE COMMISSIONS TO ADDRESS.

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1	A.	The fundamental issue the FCC tasked the state commissions with addressing was
2		how should the "mass market" be distinguished from the "enterprise market?" ¹⁴²
3		The FCC identified the cross over issue in the section of the TRO that is
4		concerned with defining the market. ¹⁴³
5	Q.	DID THE FCC SUGGEST UNITS THAT COULD BE USED IN
6		DISTINGUISHING THE MASS AND ENTERPRISE MARKETS?
7	A.	Yes, it did. The FCC suggested that the number of DS0 lines a customer uses at a
8		particular location would be an appropriate unit for the cross over analysis.
9		Specifically, the FCC stated, "as part of the economic and operational analysis
10		discussed below, a state must determine the appropriate cut-off for multi-line DS0
11		customers as part of its more granular review." ¹⁴⁴ The FCC asked the state
12		commissions to identify the number of DS0 lines needed at a particular customer
13		location before the customer crosses over from the mass market to the enterprise
14		market.
15	Q.	WHAT ARE THE CHARACTERISTICS OF MASS MARKET
16		CUSTOMERS?
17	A.	The mass market customer base is: (a) primarily interested in basic voice POTS

service¹⁴⁵; (b) widely geographically dispersed¹⁴⁶; and (c) unaccustomed to 18

¹⁴² TRO ¶ 497.

 ¹⁴³ $Id., \P\P$ 497.

 144
 $Id., \P\P$ 495 – 497.

 144
 $Id. \P$ 497.

 145
 Id. 146

 146
 $Id. \P$ 205.

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1		complex or disruptive provisioning schemes. ¹⁴⁷ The TRO recognizes each of
2		these characteristics when it distinguishes mass market from enterprise customers.
3		For purposes of the switching impairment analysis, the FCC stated "mass market
4		customers are analog voice customers that purchase only a limited number of
5		POTS lines, and can only be economically served via DS0 lines." ¹⁴⁸ Mass market
6		customers are not located exclusively in concentrated geographic locations such
7		as central business districts; rather residential and small business customers are
8		located across all urban, suburban, and rural locations. These customers expect
9		that using their telephone services, as well as changing service providers, should
10		not be a complicated transaction. As the FCC described it, "mass market
11		customers demand reliable, easy-to-operate service and trouble-free
12		installation."149
13	Q.	HOW DOES AN ENTERPRISE CUSTOMER DIFFER FROM A MASS
14		MARKET CUSTOMER?
15	A.	Enterprise customers demand a level of service and capacity – particularly for
16		data services - quite different than for the mass market customer. As the FCC put
17		it, "DS1 enterprise customers are characterized by relatively intense, often data
18		centric, demand for telecommunications services sufficient to justify service via

 ¹⁴⁷ Id, n. 716.
 ¹⁴⁸ TRO ¶ 497. See also ¶ 127 ("Mass market customers consist of residential customers and very small business customers. Mass market customers typically purchase ordinary switched voice service (Plain Old Telephone Service or POTS) and a few vertical features." 149 TRO ¶ 467.

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17	Q.	HOW MUCH MORE COSTLY IS IT TO MARKET TO AN ENTERPRISE
16		revenue.
15		sales and marketing costs are expended by the CLEC without any accompanying
14		not every customer will decide to take service with that CLEC. In that event, the
13		customer. In addition, after the CLEC sales personnel visits with the customer,
12		marketing expense to acquire an enterprise customer then it does a mass market
11		with the customer. Consequently, it requires considerably more sales and
10		premises. As a result, CLECs may also need to have Systems Consultants visit
9		such an upgrade requires that changes be made to the customer's CPE at its
8		personnel to visit the customer on one or more occasions. As explained below,
7		based service in order to change service providers generally requires sales
6		analog mass market loops to upgrade to "enterprise" status using digital DS1-
5		simplified marketing techniques. In contrast, convincing a customer served by
4		customers through inbound or outbound telemarketing calls, direct mail or similar
3		market customers. Local exchange carriers can generally acquire POTS
2		require more sophisticated sales, marketing and technical support than mass
1		high-capacity loops at the DS1 capacity and above." ¹⁵⁰ Enterprise customers also

18

CUSTOMER THAN TO A MASS MARKET CUSTOMER?

¹⁵⁰ TRO ¶ 451.

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1	A.	Industry analysts have estimated that the cost to acquire a mass market customer
2		is \$125. ¹⁵¹ I estimate that, because of the additional activities and expertise
3		required, the costs to acquire an enterprise customer are six times higher than the
4		costs to acquire a mass market customer. For the purposes of this analysis, I used
5		a marketing cost differential of \$625. ¹⁵²
6	Q.	DOES THE ORDER RECOGNIZE THE DISTINCTION BETWEEN THE
7		MASS AND ENTERPRISE MARKETS IN THE DS0/DS1 CROSS OVER
8		ANALYSIS TO BE PERFORMED BY STATE COMMISSIONS?
9	A.	Yes. The Order provides that a customer served by mass market loops is to be
10		considered part of the enterprise market when "it is economically feasible for a
11		competitive carrier to provide voice service with its own switch using a DS1 or
12		above loop. We determine that this includes all customers that are served by the
13		competing carrier using a DS1 or above loop and all customers meeting the DS0
14		cutoff described in paragraph 497." ¹⁵³ In describing the cross over point, the FCC
15		stated that it "may be the point where it makes economic sense for a multi-line
16		customer to be served via a DS1 loop." ¹⁵⁴

WHAT IS THE "CUT-OFF FOR MULTI-LINE DS0 CUSTOMERS?"¹⁵⁵ 17 Q.

¹⁵¹ See Banc of America Securities, Research Brief Wireline Telecommunications, AT&T Corporation A Case for Consumer Services, April 30, 2003, p. 20. ¹⁵² Cost to market to an enterprise customer (\$750) – Costs to market to a mass market

customer (\$125) = \$625. ¹⁵³ TRO ¶ 421, n.1296.

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1	A.	This is the point at which ILECs are relieved of their obligation to provide
2		unbundled local switching to an individual customer location. ¹⁵⁶ The purpose of
3		the cross over is to establish a governmentally drawn upper boundary to the mass
4		market - in effect, substituting the Commission's judgment of how a customer
5		should be served (via a DS-1), for the customer's judgment of how it has
6		chosen to be served (multiple POTS lines). In that respect, the concept of a
7		governmentally determined crossover point is out of touch with reality. The
8		reality is that there should be no governmentally determined crossover point and it
9		should be up to the customer to decide when he/she will be served with multiple
10		POTS lines or through a DS1 based service.
11	Q.	WHAT IS THE PRACTICAL IMPLICATION OF THE CROSS OVER?
12	A.	In all but the most limited situations, an ILEC's unbundled local switching
13		network element is only used as part of a platform with all of the other unbundled
14		network elements known as UNE-P. The issue will decide line level at which a
15		CLEC can and cannot serve customers using UNE-P.
16	Q.	DID THE FCC COME TO ANY PREVIOUS CONCLUSIONS ON
17		DISTINGUISHING THE MASS FROM THE ENTERPRISE MARKET?
18	A.	Yes, it did. The FCC previously found that if a customer had four or more lines at
19		a single customer location in density zone 1 in one of the top 50 Metropolitan

¹⁵⁶ It should be noted that if the Commission finds no impairment with respect to unbundled local switching, a Bell Operating Company would still have to provide access to that element (TRO \P 653); however, it would not have to provide switching at the rates, terms and conditions mandated by section 252 of the Act (TRO \P 656).

1		Statistical Area ("MSAs") and the ILEC had provided non-discriminatory, cost-
2		based access to the enhanced extended link ("EEL"), then the ILEC had no
3		obligation to provide unbundled local switching. ¹⁵⁷ However, that conclusion did
4		not apply in other than the top 50 MSAs or in density zones other than zone 1 in
5		the top 50 MSAs. This finding has become known as the "three line limit" or the
6		"switching carve-out."
7	Q.	WHAT FACTS DID THE FCC RELY ON IN SETTING THE "THREE
8		LINE LIMIT"?
9	A.	Frankly, the evidence the FCC relied upon in reaching its three line limit was
10		minimal. It appears that the FCC based much of its finding on the presence of
11		CLEC local switches in density zone 1 in the top 50 MSAs. Specifically, the FCC
12		concluded, "exempting incumbent LECs from unbundling local circuit switching
13		in certain circumstances in the top 50 MSAs is reasonable because nearly all of
14		the top 50 MSAs contain a significant number of competitive switches." ¹⁵⁸
15		However, the FCC did not provide any meaningful explanation as to how that
16		finding translated into a three line (or any specific line) limit. Indeed, in his
17		Separate Statement, Commissioner Harold Furchtgott-Roth pointed out the
18		absence of evidence supporting a three line limit when he stated:

¹⁵⁷ Before the Federal Communications Commission, In the Matter of Implementation of the Local Competition Provisions of the Telecommunications Act of 1996, CC Docket No. 96-98, Third Report and Order and Fourth Further Notice of Proposed Rulemaking ("UNE Remand Order"), Decision FCC 99-238, Released November 5, 1999, ¶ 278. ¹⁵⁸ Id, ¶ 281.

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1 2 3 4 5 6 7 8 9 10 11		We have before us no clear evidence that there are <i>material</i> , switching-related differences in the cost of serving customers with different numbers of lines. Certainly, there is no basis whatsoever for concluding there are <i>material</i> differences in the cost of providing switching to customers with three lines, rather than fourFrom a technological and economic perspective, there is no difference between a carrier that serves four one-line customers and a carrier that serves one four-line customer. There is consequently no reason to discriminate between the two carriers by giving the first access to local circuit switching, but denying such access to the second. ¹⁵⁹
12	Q.	DOES MERE EVIDENCE OF THE EXISTENCE OF COMPETITIVE
13		SWITCHES SUPPORT A THREE LINE LIMIT?
14	A.	No. In considering the evidence regarding the number of competitive switches in
15		zone 1 in the top 50 MSAs, the FCC failed to consider what type of customers
16		were being served by the switches. What the FCC did not appreciate at the time
17		of the UNE Remand Order – and what it does appreciate now, is that competitive
18		switches are used to serve large business enterprise customers. Thus, as the FCC
19		found in the TRO:
20 21 22 23 24		We find that the extent of competitive LEC circuit switch deployment varies tremendously in the enterprise and mass markets. In particular, we find that the record demonstrates significant nationwide deployment of switches by competitive providers to serve the enterprise market, but extremely limited
25 26		deployment of competitive LEC circuit switches to serve the mass market. ¹⁶⁰

¹⁵⁹ Separate Statement of Commissioner Harold Furchtgott-Roth, Concurring in Part and Dissenting in Part, Re: Implementation of the Local Competition Provisions of the Telecommunications Act of 1996, Third Report and Order and Fourth Further Notice of Proposed Rulemaking, CC Docket 96-98, FCC 99-238, pp. 2-3.

1 Q. HOW SHOULD THIS COMMISSION DEVELOP THE CROSS OVER

2 **POINT?**

3	A.	I recommend that the analysis be based on the economic and operational factors
4		that a CLEC must face in deciding whether to serve a customer using multiple
5		UNE-P lines or lines that are aggregated onto one or more DS1 services. This
6		analysis compares the total costs to provision DS1 services at a customer's
7		location to the costs needed to serve that same customer via UNE-P.
8		The costs to provision DS1 service at a location are characterized by substantial,
9		upfront marketing, non-recurring and investment costs and monthly recurring
10		costs that are generally not dependent upon the number of lines served at the
11		customer's location. That is because it generally costs a CLEC roughly the same
12		to serve a customer with a DS1 based service whether the customer has one line
13		or twenty-four lines. ¹⁶¹ In contrast, a CLEC's costs to order and provision UNE-P
14		service include virtually no investment or upfront non-recurring costs. The
15		CLEC's monthly recurring costs are directly related to the number of loops
16		served at a location. ¹⁶² For example, if the ILEC's rate for a UNE-P service is
17		\$20 per line per month, then the total monthly cost to serve a customer with five
18		lines is \$100.

¹⁶¹ A DS1 loop can serve up to 24 voice grade equivalents.

¹⁶² A CLEC that provides a customer with service using UNE-P will certainly incur some nonrecurring expenses for activities such as creating an internal order once the customer has agreed to subscribe to the CLEC's service and submitting an order to the ILEC. However, those expenses would also occur if the CLEC served the customer using a DS1 based service. To

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1		To arrive at the recommended cross over point, I calculate the total monthly cost
2		to sell, install and maintain a DS1 based service at a customer's location and then
3		I divided that result by the monthly UNE-P costs of serving that same customer.
4		This result (rounded to the next higher whole number) yields the number of UNE-
5		P lines at which the CLEC should be economically indifferent between using
6		UNE-P or DS1 lines to serve that location. My analysis also generally compares
7		and contrasts the operational issues associated with using UNE-P and DS1
8		services.
9	Q.	HOW DOES YOUR ANALYSIS ACCOUNT FOR THE DIFFERENT UNE
9 10	Q.	HOW DOES YOUR ANALYSIS ACCOUNT FOR THE DIFFERENT UNE RATE ZONES IN THIS STATE?
9 10 11	Q. A.	HOW DOES YOUR ANALYSIS ACCOUNT FOR THE DIFFERENT UNE RATE ZONES IN THIS STATE? The costs for a DS1 capable loop and UNE-P can vary substantially by rate zone.
9 10 11 12	Q. A.	HOW DOES YOUR ANALYSIS ACCOUNT FOR THE DIFFERENT UNE RATE ZONES IN THIS STATE? The costs for a DS1 capable loop and UNE-P can vary substantially by rate zone. Thus, there could conceivably be a different cross over point for each rate zone.
9 10 11 12 13	Q. A.	HOW DOES YOUR ANALYSIS ACCOUNT FOR THE DIFFERENT UNE RATE ZONES IN THIS STATE? The costs for a DS1 capable loop and UNE-P can vary substantially by rate zone. Thus, there could conceivably be a different cross over point for each rate zone. However, for the sake of simplicity and administrative efficiency, I recommend a
9 10 11 12 13 14	Q. A.	HOW DOES YOUR ANALYSIS ACCOUNT FOR THE DIFFERENT UNE RATE ZONES IN THIS STATE? The costs for a DS1 capable loop and UNE-P can vary substantially by rate zone. Thus, there could conceivably be a different cross over point for each rate zone. However, for the sake of simplicity and administrative efficiency, I recommend a cross over point based upon a weighted average of the cross over points for the
9 10 11 12 13 14 15	Q. A.	HOW DOES YOUR ANALYSIS ACCOUNT FOR THE DIFFERENT UNE RATE ZONES IN THIS STATE? The costs for a DS1 capable loop and UNE-P can vary substantially by rate zone. Thus, there could conceivably be a different cross over point for each rate zone. However, for the sake of simplicity and administrative efficiency, I recommend a cross over point based upon a weighted average of the cross over points for the individual zones. The weighting is based on the percentage of unbundled loops

simplify the analysis, CLEC costs to order either UNE-P or DS1 loops are excluded from the analysis. ¹⁶³ Since the analysis determines rate zone specific cross over points, the Commission can

¹⁶³ Since the analysis determines rate zone specific cross over points, the Commission can alternatively use it to establish cross over points for each rate zone. The analysis can also be used to develop weighted average cross over points for if the Commission defines geographic market areas that include more than one rate zone.

Q. DOES A CLEC TYPICALLY CHOOSE BETWEEN SERVING A MULTI LINE POTS CUSTOMER BY USING UNE-P OR A DS1 BASED SERVICE?

17	Q.	DO THE RELATIVE NETWORK ARCHITECTURES OF UNE-P AND
16		C. UNE-P AND DS1 NETWORK ARCHITECTURES
15		or a DS1 based service.
14		whether to continue to serve the customer with multiple POTS lines (i.e., UNE-P)
13		In contrast, multi-line POTS customers potentially offer CLECs a choice of
12		surpassed. Therefore, for such customers, UNE-P is not a realistic option.
11		likely that the customer has already concluded that the cross over point has been
10		are being served via ILEC or CLEC provided CPE and a DS1 based service, it is
9		technologically backward step to a UNE-P service. In addition, for customers that
8		will want to abandon that investment, invest in new analog CPE and take a
7		invested in a key system ¹⁶⁴ or a small PBX, it is very unlikely that the customer
6		likely have no choice but to offer a DS1 based service. Once a customer has
5		service by its current provider, a CLEC that wishes to win that customer will very
4	A.	Yes, it does. If a multi-line customer is already being provided a DS1 based

18

DS1 SERVICE AFFECT THE COSTS USED IN THE ANALYSIS?

¹⁶⁴ Key systems or key telephone systems are systems in which the telephones have multiple buttons requiring the used to directly select central office phone lines and intercom lines. Key systems generally and traditionally find most appropriate application in relatively small business environments, typically in the range of 50 telephones and require relatively unsophisticated functionality and feature content.

1	A.	Yes. To understand the analysis, one must first understand the UNE-P and DS1
2		network architectures.
3	Q.	PLEASE DESCRIBE THE NETWORK ARCHITECTURE FOR UNE-P.
4	A.	The network architecture for UNE-P is the same simple, POTS architecture that
5		ILECs use to provide retail service to their own end users. To obtain service, a
6		customer with one or more telephone lines merely plugs its analog telephone sets
7		into wall jacks. Each jack will be associated with one or two of the customer's
8		telephone numbers. ¹⁶⁵ The wall jacks are connected to the customer's inside
9		telephone wire. The inside wire for a premises terminates at the customer's
10		Network Interface Device ("NID"). For a residential customer, the NID is
11		generally located on the side of the customer's house. For small business
12		customers, the NID can be located on the side of the customer's building or inside
13		the customer's building in some type of equipment closet. For each POTS line at
14		a customer's location, an ILEC twisted copper loop is connected to the NID. The
15		copper loop provides the electrical current necessary to ring the customer's
16		telephone when an incoming call is received and to provide dial tone when the
17		customer attempts to make a call. ¹⁶⁶ Because all of the electrical current required
18		to make and receive telephone calls is provided over the copper loop, a

¹⁶⁵ A telephone jack can be wired to support two different telephone lines with two different telephone numbers. This permits a customer to use both telephone lines with a single, two-line, analog telephone set.

¹⁶⁶ If the customer's cooper loop is connected directly to the circuit switch, the switch will provide the ringing current and dial tone. If the customer's loop has multiplexing equipment in the loop, the multiplexing equipment provides the ringing current and dial tone.

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1		customer's telephone service will operate even when the customer has
2		experienced an electrical power outage.
3		Thus, in its simplest form, with a POTS architecture, each telephone line has its
4		own separate connection from the customer's premises to the local circuit switch
5		serving that customer. For example, a customer with eight POTS lines will have
6		eight separate loop connections to the local circuit switch serving those lines.
7	Q.	DOES A UNE-P ARCHITECTURE REQUIRE THE CLEC TO MAKE
8		ANY INVESTMENT IN CPE OR NETWORK EQUIPMENT?
9	A.	Generally speaking, a CLEC does not have to make any network or CPE
10		investments to serve a customer using UNE-P. A CLEC may, however, invest in
11		its own equipment to provide voice mail service or to provide its own operator or
12		directory assistance services. For the purposes of this analysis, no CLEC
13		investment is assumed when the CLEC serves a customer using UNE-P.
14	Q.	WHAT NON-RECURRING UNE-P COSTS ARE CONSIDERED IN THE
15		ANALYSIS?
16	A.	The analysis assumes a customer with POTS service from the ILEC would be
17		migrated to CLEC UNE-P service. In Washington the UNE-P migration
18		recurring charge is \$0.27 - for the first line and \$0.14 for each additional line on
19		an order. ¹⁶⁷ Because the non-recurring costs incurred by the ILEC to migrate a

¹⁶⁷ Qwest Washington SGAT, Exhibit A, Section 9.23.2.1, November 14, 2003.

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1 customer from retail to UNE-P are so low, I did not include them in the analysis.

2 There are no other non-recurring UNE-P costs that I considered in the analysis.

- 3 Q. WHAT ARE THE MONTHLY RECURRING UNE-P COSTS THAT ARE
- 4 **CONSIDERED IN THE ANALYSIS?**
- 5 A. For the purpose of this analysis, the following Washington UNE-P monthly
- 6 recurring costs were used:

Rate Zone	Monthly UNE-P Rate
1	\$10.09
2	\$15.03
3	\$16.44
4	\$17.99
5	\$22.74

7		The UNE-P rate is comprised of the rate zone specific unbundled analog
8		loop cost, the monthly recurring switch port charge, and any applicable usage
9		sensitive costs (e.g. switching, shared transport, signaling, databases, and Daily
10		Usage File). ¹⁶⁸
11	Q.	PLEASE DESCRIBE THE NETWORK ARCHITECTURE FOR THE DS1
12		SERVICE.
13	A.	With a DS1 service, instead of maintaining a separate connection (analog loop)
14		from the customer's premises to the local circuit switch for each telephone line,
15		special equipment at the customer's premises is used to aggregate the multiple
1.0		

¹⁶⁸ The usage sensitive charges assumed 1,668 minutes of combined originating and terminating local and toll calling.

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1	customer's premises to the switch. As with the POTS architecture, with a DS1
2	architecture a customer with one or more telephone lines can plug analog
3	telephone sets into wall jacks that are connected to the customer's inside wire and
4	that inside wire will terminate at a NID.
5	In order to aggregate multiple, analog lines onto a common DS1 loop, the signals
6	from all of the customer's analog lines must be converted into digital signals and
7	then multiplexed. The equipment that must be installed at a customer's premises
8	to convert the multiple analog lines onto a single digital DS1 loop is called
9	channel bank equipment. If a customer does not already have such equipment
10	(and considering the circumstances being reviewed, there is no reason to assume
11	that it will), then the CLEC must provide it, because the customer would not be
12	willing to incur such costs simply because regulatory rules require that it be
13	moved from "mass market" to "enterprise" status.
14	With digital DS1 services, unlike analog POTS service, the electric current
15	necessary to ring the customer's telephones and provide dial tone cannot be
16	provided through the digital DS1 loop. Instead, they are provided by the CLEC
17	channel bank equipment at the customer's premises. The channel bank equipment
18	is typically installed inside a customer's premises, either on a wall or on the floor.
19	Although there are varying numbers of lines that may terminate on a single card,

1	the channel bank unit will typically have a 24-line capacity. ¹⁶⁹ Examples of
2	frequently used channel bank units are Premisys SlimLine Channel Bank and the
3	Adtran Total Access 750 units.
4	To power the CLEC's channel bank equipment at the customer's premises, the
5	equipment must be plugged into the customer's commercial AC power. The
6	channel bank unit typically has the ability to convert the customer supplied AC
7	power to the DC power needed to run the customer's CPE. And, as noted above,
8	however, the DS1 loop architecture does not allow the electrical current needed
9	for ringing and dial tone to be provided from the carrier's switch. Thus, in order
10	to provide the customer with continuous service during power interruptions, the
11	CLEC must also provide DC battery back up. To do so, a separate power unit is
12	required to manage the battery string to assure the batteries are fully charged and
13	can be accessed in the event of a power failure. For the purpose of this analysis,
14	an Adtran Total Access 750 Channel Bank with 24 analog line ports, an Adtran
15	AC/DC Power Supply and Battery Charger and an Adtran Battery Backup System
16	(Wall mount) is employed. ¹⁷⁰ The backup battery system will provide power
17	during an interruption of commercial power for the channel bank for up to eight
18	hours. The list price of the Adtran channel bank equipment, AC/DC power
19	supply and battery charger and backup battery system is \$3,161. I assumed a

¹⁶⁹ This 24-line limit is a natural result in that the capacity of a DS1 loop is 24 voice grade

channels. ¹⁷⁰ Technical descriptions of the Adtran Total Access 750 and the associated AC/DC Power Supply and Battery Charger and Battery Backup System is provided in **Exhibit JFF-3** to this testimony.

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1		discount of 30 percent off of the list price of the Adtran CPE to account for
2		discounts that efficient CLECs would likely obtain from the supplier of the
3		channel bank equipment. The net CPE cost that I used for the analysis was
4		\$2,212.70.
5		In sum, regardless of the variety of names applied to the CPE provided by
6		telecom equipment suppliers, the fundamental set of functionalities that must be
7		provided to support DS1 service are channel banks, power management and
8		battery backup.
9	Q.	WHAT MUST THE CLEC DO TO INSTALL THE CHANNEL BANK AND
10		BATTERY BACKUP EQUIPMENT?
11	A.	To install the equipment, a CLEC must have a technician travel to the customer's
12		premises. To connect the inside copper wires from the individual telephone lines
13		to the channel bank equipment, the CLEC must either provide a wired connection
14		from the NID to the channel bank equipment or disconnect the inside wires from
15		the NID and reconnect them to the channel bank. For the purpose of this analysis
16		a CLEC installation cost of \$128 was used. This cost assumed two hours for the
17		installation of the equipment at a rate of \$64.00 per hour. ¹⁷¹

¹⁷¹ As a proxy for the CLEC technician labor rate for installing the CPE, I used the Miscellaneous Equipment Installation Charge of \$64.00 from the Qwest Washington SGAT, Exhibit A, Section 9.20.17, November 14, 2003.

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1	Q.	WOULD THE INSTALLATION BE THE ONLY TIME THAT A CLEC
2		TECHNICIAN WOULD NEED TO SERVICE THE CHANNEL BANK
3		AND BATTERY BACKUP EQUIPMENT?
4	A.	No, a CLEC technician would also have to visit the customer's premises to
5		service the equipment in the event that the equipment needed repair, or in the
6		event that the customer discontinues service altogether or switches its service to
7		another provider.
8	Q.	HOW OFTEN IS THE EQUIPMENT THE CLEC INSTALLS AT THE
9		CUSTOMER'S PREMISES IN NEED OF REPAIR?
10	A.	It is quite difficult to pinpoint an exact failure frequency. However, for the
11		purposes of this exercise I would suggest that one visit by a CLEC technician to
12		service the CLEC equipment every three years would be a reasonable projection.
13		Some customers may require service sooner or later than once every three years.
14		For the purpose of this analysis, I assumed the costs of $1/3$ of a repair visit during
15		the period that the CLEC serves the customer. I would also estimate a single visit
16		would require one hour for the repair. For the purpose of this analysis I used an
17		average maintenance cost per year of \$21.33. ¹⁷²

 $^{^{172}}$ 1/3 of a visit * 1.00 hour per visit * \$64.00 per hour.

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1	Q.	DOES YOUR ANALYSIS INCLUDE A COST FOR EQUIPMENT
2		REMOVAL IN THE EVENT THAT THE CUSTOMER DISCONNECTS
3		ITS SERVICE WITH THE CLEC?
4	A.	Yes, it does. If the customer stops obtaining service from the CLEC, the CLEC
5		would have to send a technician to the customer's premises to disconnect and
6		remove the CPE. For the purpose of the analysis, I estimated \$64.00 in
7		equipment removal costs. I estimate that the removal of the CLEC's equipment
8		from the customer's premises would take one hour at a rate of \$64.00. To
9		account for the fact that the equipment removal costs will take place in the future,
10		I calculated the net present value ("NPV") of the \$64.00 expenditure assuming the
11		customer will find a different provider of DS1 service in two years. The ("NPV")
12		of a \$64.00 expenditure made two years into the future is \$51.36. ¹⁷³
13	Q.	HOW WOULD THE CONNECTION FROM THE CPE TO THE CLEC'S
14		SWITCH BE MADE?
15	A.	The connection from the channel bank to the CLEC's collocation is provided by a
16		4-wire DS1-capable loop that terminates in the ILEC central office on a DSX-1
17		panel or its equivalent. The DS1 loop provides the connection between the CPE
18		and the ILEC's central office. Assuming that the ILEC had DS1 capable loops
19		available at the customer's location, the ILEC could install the DS1 loop in

¹⁷³ For the net present value calculation, I used a cost of capital of 11.63 percent. This figure was determined by adding 2 percent to the approved cost of capital for Qwest in this state (9.63 percent.) I added a 2% premium to the ILEC cost of capital to account for the additional risk lenders face in loaning money to a CLEC industry that is replete with bankrupt CLECs.

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1	parallel with the existing analog loops that the customer uses for its POTS service.
2	The ILEC installation would involve performing cross connections between the
3	DSX-1 panel and the CLEC's collocation. For the purpose of this analysis, the
4	non-recurring and recurring costs for a DS1 capable loop and the non-recurring
5	cost for a DS1 interconnection tie pair were used. To accommodate a migration
6	with as little disruption to the customer as possible and to ensure that the newly
7	installed DS1 loop operates properly, the non-recurring costs assumed for the DS1
8	capable loop are based upon a coordinated conversion with cooperative testing.
9	In Washington, the non-recurring costs for coordinated installation with
10	cooperative testing of a DS1 unbundled loop is \$332.34. ¹⁷⁴ The recurring cost of
11	an interconnection tie pair for a DS1 unbundled loop is \$1.29. ¹⁷⁵ If, at some point
12	in the future, the customer were to leave the CLEC to obtain service from another
13	provider, the CLEC would incur a disconnection charge for the DS1 unbundled
14	loop of \$27.99. ¹⁷⁶ To account for the fact that the disconnection charge will take
15	place in the future, I calculated the net present value ("NPV") of the \$27.99
16	expenditure assuming the customer will find a different provider of DS1 service
17	in two years. The ("NPV") of a \$27.99 expenditure made two years into the
18	future is \$22.46.

 ¹⁷⁴ Qwest Washington SGAT, Exhibit A, Section 9.2.5.3.2.3, November 14, 2003.
 ¹⁷⁵ Id, Section 9.1.
 ¹⁷⁶ Id, Section 9.2.5.1.1.4.

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1	Q.	PLEASE DESCRIBE THE EQUIPMENT A CLEC USES IN ITS
2		COLLOCATION TO RECEIVE THE DS1 LOOP.
3	A.	A multiplexer is required in the CLEC collocation in order to consolidate
4		individual DS1 loops onto a higher capacity DS3 transport facility connecting the
5		collocation to the CLEC switching node. The EdgeLink100 from Telco Systems
6		is a product that is frequently used to multiplex DS1 circuits onto a DS3 circuit. ¹⁷⁷
7		For the purposes of this analysis, I use a cost of \$3,600 for the Edgelink 100
8		multiplexer. Assuming that twenty-eight DS1 circuits are being multiplexed by
9		the multiplexers in the CLEC's collocation, a single DS1 loop would be
10		responsible for $1/28$ of the \$3,600 cost of each multiplexer, or \$128.57. ¹⁷⁸
11	Q.	HOW DOES THE MULTIPLEXED DS3 CIRCUIT REACH THE CLEC'S
12		LOCAL SWITCH?
13	A.	The DS3 circuit would be backhauled from the CLEC's collocation in the ILEC
14		central office to the CLEC's local switch location. As previously discussed, at the
15		CLEC's switch location, the DS3 circuit must be demultiplexed back to individual
16		DS1 circuits. The individual DS1 circuits are terminated at the CLEC's switch
17		into a DS1 switch port. The DS1 switch port is necessary whether the DS1 is
18		carrying one line of a customer's voice traffic or the maximum of 24 lines of a
19		customer's voice traffic. For the purposes of this analysis, I used a monthly

¹⁷⁷ A technical description of the Telco Systems EdgeLink 100 is provided in Exhibit JFF-4 to this testimony.
¹⁷⁸ The per DS1 loop investment assumed for this analysis was calculated as follows: 1

multiplexer * $1/28 \times 3,600 = 128.57 .

1		recurring cost of \$13.87 to backhaul the customer's DS1 service on the transport
2		DS3. ¹⁷⁹ For the multiplexing at the CLEC's switching location, CLEC DS1
3		switching costs and the transport between the CLEC switch serving the customer
4		and other switches, I used a monthly recurring cost of \$40.60. ¹⁸⁰ A diagram of
5		the DS1 based architecture can be found in Exhibit JFF-5.
6		D. OPERATIONAL ISSUES
7	Q.	DOES THE MIGRATION OF A CUSTOMER'S SERVICE TO A DS1
8		BASED SERVICE INVOLVE A HOT CUT AND A LOSS OF SERVICE BY
9		THE CUSTOMER?
10	A.	Yes, it does. For customers with existing POTS service, the process of the CLEC
11		connecting the customer's inside wire to the channel bank will require some
12		period of time when the customer is totally out of service and unable to make or
13		receive incoming telephone calls. In addition, even after the CLEC technician has
14		completed the process of installing the channel bank and other equipment, the
15		customer will be unable to receive telephone calls until the customer's telephone
16		numbers have been ported by the CLEC. The interval between when the CLEC
17		technician starts the conversion until the CLEC ports the customer's telephone
18		numbers can be over an hour.

¹⁷⁹ The backhaul cost conservatively assumes the distance between the collocation and the CLEC's switch node is 3 miles and the backhaul is provided via ILEC special access.
¹⁸⁰ The \$40.60 cost assumed 12 lines were being served at the customer's location. That cost includes the transmission equipment, the switch investment and transport facilities. For an discussion of these costs, please see the Direct Testimony of Michael R. Baranowski.

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1		Much attention has been given lately to the hot cut process for individual
2		customer analog loops. In that process, the movement of the wires is done by the
3		ILEC in the ILEC central office. With a DS1 based service, a hot cut with the
4		accompanying loss of service is still necessary; the difference is that it is
5		performed by the CLEC at the customer's premises instead of the ILEC at the
6		ILEC central office.
7		The TRO may have created the mistaken impression that hot cuts are unnecessary
8		for customers served via a DS1 based service when it stated, "if a customer has
9		enough lines to justify the expense of purchasing multiplexing equipment and a
10		high-capacity line, it makes sense to aggregate the customer's loops at the
11		customer's premises, which avoids the need for hot cuts at the incumbent LEC's
12		central office." ¹⁸¹ While it is true that hot cuts at the incumbent LEC's central
13		office would be avoided, it is also true that since wires at the customer's location
14		must be disconnected and reconnected, a hot cut at the customer's premises would
15		be required.
16	Q.	DOES THE MIGRATION OF A CUSTOMER'S SERVICE TO A DS1
17		BASED SERVICE ALSO REQUIRE THE PORTING OF THE
18		CUSTOMER'S TELEPHONE NUMBERS?
19	A.	Yes, it does. Virtually all customers - and certainly all business customers
20		want to retain their existing telephone numbers if they change their local service

¹⁸¹ TRO, n. 1544.

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1		provider. Thus, a customer served by a DS1 loop must still have its numbers
2		ported. The steps needed to port a customer's telephone number when the CLEC
3		uses a DS1 based service are the same as if the CLEC migrated multiple analog
4		loops. ¹⁸²
5	Q.	ARE THERE ANY REASONS WHY A CUSTOMER USING MULTIPLE
6		POTS LINES WOULD NOT BE INTERESTED IN A DS1 BASED
7		SERVICE?
8	A.	Yes, there are several. First, the customer must set aside inside and protected
9		floor or wall space to accommodate the CLEC's channel bank, power
10		management and backup battery equipment. With a POTS service such as UNE-
11		P (and even UNE-L), there is no need to install and maintain any CLEC
12		equipment at the customer's premises. Thus, it is likely that some customers will
13		be unable or unwilling to set aside the protected space needed to accommodate
14		the required CLEC equipment. This, in turn, inherently limits the number of
15		customers that a CLEC could serve with a DS1 based service. At a minimum, it
16		takes additional sales and related support resources to convince a customer to
17		allow the CLEC to make the necessary changes at its premises.
18		Second, even if the customer were willing to devote protected space to house the
19		equipment needed to support a DS1 based service, it must also be subjected to a

¹⁸² Therefore, the ILEC must still establis hed the ten digit trigger for the ported numbers before the port, and the CLEC must still send the message to port the customer's telephone numbers to the Number Portability Administration Center ("NPAC") as soon as possible after the customer's inside wire has been connected to the channel bank.

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1		premises visit by the CLEC technician and cope with a service outage. These
2		inconveniences will also limit the number of customers that are willing to change
3		from multiple ILEC-provided POTS lines to a CLEC-provided DS1 service. And
4		again, convincing the customer to subject itself to these inconveniences requires
5		considerably more sales support than a UNE-P order, which does not (or at least
6		should not) require the customer to suffer any inconveniences at all.
7		E. THE COST ANALYSIS
8	Q.	WHAT TYPES OF COSTS ARE GENERALLY CONSIDERED IN THE
9		ANALYSIS?
10	A.	Generally speaking, the analysis considered three types of costs. These include:
11		1) investment in customer premises equipment ("CPE") and network equipment,
12		2) non-recurring costs and 3) monthly recurring expenses.
13	Q.	HOW WERE THE CPE AND NETWORK INVESTMENT COSTS
14		CONSIDERED?
15	A.	The investment costs were converted to an amortized monthly cost using the PMT
16		function in Microsoft Excel. The costs were amortized based on a CLEC cost of
17		capital of 11.63 percent. ¹⁸³ For the CPE, I used an economic life of ten years in
18		the amortization calculation. As previously discussed, the switching investment
19		and the costs of the transport necessary to carry calls to and from the DS1
20		customer was converted to a monthly recurring cost.

¹⁸³ See note 173.

1	Q.	HOW WERE THE NON-RECURRING COSTS CONSIDERED?
2	A.	The non-recurring costs were converted to an amortized monthly cost again using
3		the PMT function in Microsoft Excel. The non-recurring costs were amortized
4		over a two-year period. I estimated that the expected time a CLEC would be
5		serving an average customer would be two years. ¹⁸⁴
6	Q.	HOW WERE THE MONTHLY RECURRING EXPENSES
7		CONSIDERED?
8	A.	The monthly recurring expenses were used in the analysis without adjustment.
9	Q.	HOW DID YOU ARRIVE AT THE TOTAL MONTHLY COST FOR THE
10		DS1 BASED SERVICE?
11	A.	The analysis separately calculated the DS1 costs for each rate zone. In calculating
12		the DS1 costs, I first added the: 1) amortized monthly CPE investment, 2)
13		amortized monthly network equipment investment, 3) amortized monthly non-
14		recurring costs and 4) monthly recurring expenses. Then, I divided that total by
15		the rate zone specific monthly recurring costs for UNE-P. This is the cross over
16		point because it represents the number of UNE-P lines that would create costs
17		equal to the monthly costs to provide a customer a DS1 service. After calculating
18		the cross over point for each rate zone, I next calculated a statewide weighted
19		average cross over point. The weighted average cross over point was based upon

¹⁸⁴ Industry analysts have estimated an annual churn rate for CLECs of 42.8 percent of the customer base. *See* Banc of America Securities, Research Brief Wireline Telecommunications, *AT&T Corporation A Case for Consumer Services*, April 30, 2003, p. 10. Using that number, a CLEC will, on average, lose a customer within two years.

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1		the percentage of ILEC loops that were found in each rate zone and it was
2		rounded up to the next whole number. The spreadsheets supporting the analysis
3		are provided in Exhibit JFF-6.
4		F. CONCLUSION
5	Q.	WHAT ARE YOUR OVERALL CONCLUSIONS FOR THE CROSS OVER
6		POINT?
7	A.	When a fact-based, quantitative analysis is performed using cost information from
8		this state, the point at which it is economically rational for a CLEC to use a DS1
9		based service is when a customer 12 or more lines. The evidence used to arrive at
10		this conclusion is objective and quantitative and the analysis performed was
11		granular, specific to this state and representative of how a CLEC would view a
12		decision to serve a customer with UNE-P or a DS1 based service. As previously
13		discussed, the Commission can easily use the analysis to calculate cross over
14		points for whatever markets the Commission eventually identifies.

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VI. <u>IMPAIRMENT ANALYSIS FOR MASS MARKET</u> <u>LOCAL SWITCHING: INTERPRETATION AND</u> <u>APPLICATION OF THE FCC TRIGGERS</u>

4 A. IMPAIRMENT ANALYSIS GENERALLY

5 Q. HOW DOES THE *TRIENNIAL REVIEW ORDER* ANALYZE

6 IMPAIRMENT FOR MASS MARKET LOCAL SWITCHING?

7 A. As the FCC recognized, "incumbent LECs [must] make an element available so 8 long as requesting carriers would be impaired without it."¹⁸⁵ The FCC made a 9 national finding that CLECs are impaired without access to unbundled local switching to serve mass market customers.¹⁸⁶ Any impairment analysis for mass 10 11 market switching must begin then with the FCC's finding of nationwide 12 impairment. At the same time, as discussed above, the FCC delegated to the 13 states the role of determining whether an exception should be made in any 14 particular area to the national impairment finding. The FCC identified two 15 processes for making this investigation, one a more streamlined determination of 16 whether certain "triggers" have been met, and the other a full analysis of the 17 economic and operational barriers to entry that CLECs face in attempting to serve mass market customers without access to unbundled local switching.¹⁸⁷ 18 19 It is essential to recognize that both analytical processes are intended to - and 20 indeed must – reach the same answer to the same question, *i.e.*, whether the

¹⁸⁵ TRO, ¶ 117.

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¹⁸⁶ *Id.* ¶ 502.

¹⁸⁷ *Id.* ¶¶ 462, 463.

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1		defined area supports multiple, viable entrants that can serve mass market
2		customers using non-ILEC switching. Thus, both analytical processes are also
3		part of the broader analysis to determine "whether lack of access to an incumbent
4		LEC network element poses a barrier or barriers to entry, including operational
5		and economic barriers that are likely to make entry into a market uneconomic." ¹⁸⁸
6		Both prongs of the impairment test are intended to provide a "less demanding"
7		standard than "necessary" when evaluating the barriers to entry that exist in the
8		absence of access to ILEC-provided unbundled switching. ¹⁸⁹
9	Q.	WHAT ANALYTICAL STEPS SHOULD THE COMMISSION FOLLOW
10		IN CONDUCTING THE IMPAIRMENT ANALYSIS?
11	A.	In order to apply the triggers and full-scale impairment analysis, state
12		commissions are required to define a "geographic market," a process that the FCC
13		recognizes must entail the gathering and analysis of detailed data. ¹⁹⁰ A more
14		complete discussion of how the Commission is to define the relevant geographic
15		areas within Washington, using the factors outlined in the Triennial Review
16		Order, is contained in section III of my testimony, supra.
17		In any geographic area in which an ILEC challenges the national finding of
18		impairment, the Triennial Review Order directs state commissions to first apply
19		defined triggers based on "objective" data. If the triggers are met, then the state
20		commissions must conclude that a lack of impairment exists unless exceptional

- ¹⁸⁸ Id. ¶ 56. ¹⁸⁹ Id. ¶71. ¹⁹⁰ Id. ¶ 495.

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1		barriers prevent other competitors from entering without unbundled switching. ¹⁹¹
2		If the triggers are not met, the state commissions may then (if requested) conduct
3		an analysis to determine whether operational and economic conditions in the
4		defined geographic area allow multiple competitors to enter economically without
5		access to the ILEC's unbundled switching. ¹⁹² If impairment is found to exist
6		under this unabridged impairment analysis, the states are to look at whether all of
7		the identified impairments can be eliminated if unbundled switching were
8		available on a "rolling acquisition" basis that enables CLECs to acquire customers
9		using UNE-P for a minimum of 90 days and then transition them to a CLEC
10		arrital 193
10		SWIICH.
10	Q.	HOW DOES APPLICATION OF THE TRIGGERS FOR MASS MARKET
10 11 12	Q.	WICH. HOW DOES APPLICATION OF THE TRIGGERS FOR MASS MARKET UNBUNDLED SWITCHING FIT WITHIN THE OVERALL
10 11 12 13	Q.	WIICH. HOW DOES APPLICATION OF THE TRIGGERS FOR MASS MARKET UNBUNDLED SWITCHING FIT WITHIN THE OVERALL IMPAIRMENT ANALYSIS?
10 11 12 13 14	Q. A.	HOW DOES APPLICATION OF THE TRIGGERS FOR MASS MARKET UNBUNDLED SWITCHING FIT WITHIN THE OVERALL IMPAIRMENT ANALYSIS? Both the trigger analyses and the full-scale economic and operational impairment
10 11 12 13 14 15	Q. A.	Switch. HOW DOES APPLICATION OF THE TRIGGERS FOR MASS MARKET UNBUNDLED SWITCHING FIT WITHIN THE OVERALL IMPAIRMENT ANALYSIS? Both the trigger analyses and the full-scale economic and operational impairment test are intended to determine whether CLECs are able to serve mass market
10 11 12 13 14 15 16	Q. A.	Switch. HOW DOES APPLICATION OF THE TRIGGERS FOR MASS MARKET UNBUNDLED SWITCHING FIT WITHIN THE OVERALL IMPAIRMENT ANALYSIS? Both the trigger analyses and the full-scale economic and operational impairment test are intended to determine whether CLECs are able to serve mass market customers without access to the incumbent's unbundled local switching. As the
10 11 12 13 14 15 16 17	Q. A.	Switch.HOW DOES APPLICATION OF THE TRIGGERS FOR MASS MARKETUNBUNDLED SWITCHING FIT WITHIN THE OVERALLIMPAIRMENT ANALYSIS?Both the trigger analyses and the full-scale economic and operational impairmenttest are intended to determine whether CLECs are able to serve mass marketcustomers without access to the incumbent's unbundled local switching. As theFCC held, "[a] requesting carrier is impaired when lack of access to an incumbent
10 11 12 13 14 15 16 17 18	Q. A.	Switch.HOW DOES APPLICATION OF THE TRIGGERS FOR MASS MARKETUNBUNDLED SWITCHING FIT WITHIN THE OVERALLIMPAIRMENT ANALYSIS?Both the trigger analyses and the full-scale economic and operational impairmenttest are intended to determine whether CLECs are able to serve mass marketcustomers without access to the incumbent's unbundled local switching. As theFCC held, "[a] requesting carrier is impaired when lack of access to an incumbentLEC network element poses a barrier or barriers to entry, including operational

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1	The trigger analysis focuses exclusively on the actual competition that exists
2	today. ¹⁹⁵ In contrast, even if a trigger is not met, the full-scale impairment test
3	takes into account the level of actual competition that exists today, and also
4	considers whether existing conditions would allow an efficient CLEC to
5	profitably enter a market without access to unbundled switching. ¹⁹⁶ Under both
6	prongs of the impairment analysis, actual marketplace evidence is reviewed to
7	determine "whether new entrants, as a practical matter, have surmounted barriers
8	to entry in the relevant market." ¹⁹⁷ Both the triggers and the full-scale impairment
9	test are part of a holistic approach to determining whether CLECs have (under the
10	former test), or reasonably could (under the latter test), overcome the general
11	economic and operational obstacles to entry without access to unbundled
12	switching. ¹⁹⁸ Critically, both tests, as all unbundling decisions, must yield results
13	that are "economically rational." ¹⁹⁹

¹⁹⁵ Id. ¶¶ 461 & 498.
¹⁹⁶ Id. ¶ 463.("[S]tates must consider evidence of actual competitive deployment of local circuit switches, operational barriers to competitive entry, and economic barriers to competitive entry.") ¹⁹⁷ Id. ¶ 93. ¹⁹⁸ Id. ¶71. ¹⁹⁹ Id. ¶ 78.

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1 **B**. **IMPAIRMENT ANALYSIS UNDER** 2 THE TRIGGER PRONG 3 Q. HOW ARE THE TRIGGERS FOR MASS MARKET UNBUNDLED 4 LOCAL SWITCHING DEFINED? 5 A. The FCC has established two triggers for state commissions to use to determine if 6 CLECs have overcome the nationally identified impairment with respect to mass 7 market switching in a specific geographic area. The first trigger analyzes whether 8 at least three competitors are actively using their own switching to serve 9 residential and small business customers in the identified area. The second trigger 10 examines whether at least two unaffiliated wholesalers are providing unbundled 11 switching, and whether they are willing and operationally able to meet the switching needs of all competing providers serving the mass market in the area.²⁰⁰ 12 13 Although the FCC recognized that there is little evidence that such wholesalers currently exist,²⁰¹ the *Order* includes this alternative trigger in anticipation of 14 15 possible market changes and for potential application in future impairment 16 reviews. 17 Q. WHAT IS THE COMMISSION'S ROLE IN INTERPRETING AND

18

APPLYING THE MASS MARKET SWITCHING TRIGGERS?

²⁰⁰ See Id. ¶¶ 498-505.

²⁰¹ "[W]e have little to no evidence of a wholesale market for switching services from alternative vendors." *Id.* ¶ 113.

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1	А.	The FCC has expressly endorsed the Commission's authority to interpret and
2		apply the trigger aspect of the impairment analysis for mass market switching.
3		Indeed, the FCC expressly stated:
4 5 6 7 8		As we examine the evidence of facilities deployment by competitive LECs in the specific UNE discussions, we will give it substantial weight, but we do not agree that we must find it conclusive or presumptive of a particular outcome <i>without additional information or analysis</i> . ²⁰²
9		The Commission must therefore exercise appropriate discretion in applying the
10		triggers, especially since the FCC made its national impairment finding on the
11		basis of substantial record evidence. The FCC recognized that state commissions
12		are best positioned to "gather and assess the necessary information" ²⁰³ to make
13		the "granular" reviews required by its decision and the D.C. Circuit's prior
14		ruling. ²⁰⁴ Thus, it is proper – and indeed essential that the Commission exercise
15		its expertise and judgment in applying triggers.
16		Indeed, the ILECs cannot reasonably be heard to argue otherwise. For
17		example, in their filings with the Court of Appeals objecting to the FCC's
18		decision, USTA, Verizon, BellSouth and SBC claimed that the impairment
19		analysis in the Triennial Review Order represented a "blank check abdication" by
20		the FCC of the unbundling determinations to the state commissions. ²⁰⁵ Further,

²⁰² Id. ¶ 94 (emphasis added).
²⁰³ Id. ¶ 188.
²⁰⁴ Id. 493.
²⁰⁵ Reply Brief in Support of Petitions for Writ of Mandamus to Enforce the Mandate of this Court, United States Telecom Assoc. v. FCC, Nos. 00-1012, 00-1015, p.1 (Oct. 16, 2003).

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1		the ILECs vigorously challenged whether the FCC's "competitive triggers"
2		provide "meaningful limits" on the discretion of state commissions. ²⁰⁶
3		1. Self Providers
4	Q.	HOW SHOULD THE COMMISSION'S DISCRETION BE EXERCISED?
5	A.	Perhaps the most critical area in which the Commission must exercise its
6		judgment is in developing the quantitative and qualitative criteria it will apply to
7		the carriers that it will "count" for purposes of meeting the triggers. The TRO
8		provides many guidelines to state commissions in this regard. In order for any
9		carrier to count in the trigger analysis it must meet all qualifications outlined in
10		the Triennial Review Order.
11	Q.	WHAT SHOULD THE COMMISSION DO TO PREPARE ITSELF
12		BEFORE IT APPLIES THE TRIGGERS?
13	A.	At a minimum, the Commission should familiarize itself with the facts that give
14		rise to CLECs' economic and operational impairment in Washington. A
15		background in this evidence is important to understand why impairment exists
16		and the customer affecting implications of a decision that a trigger has been
17		met. ²⁰⁷

 $^{^{206}}$ Id. at 9; see also id. at 9 n. 4 ("The Order abdicates to the states tasks that are far from

^{'mechanical.'')}²⁰⁷ Further, as a practical matter, a party raising a challenge on appeal would be entitled to demonstrate that CLECs remain economically and/or operationally impaired even though a trigger was declared to be met.

Q. WHAT CRITERIA MUST A CARRIER MEET IN ORDER TO "COUNT" AS A SELF PROVIDER UNDER THE FCC TRIGGERS FOR MASS MARKET UNBUNDLED SWITCHING?

4 A. As a threshold matter, any carriers relied upon in the self-provisioning trigger analysis must be unaffiliated with the ILEC and with one another.²⁰⁸ Assuming 5 6 the affiliate test is met, a qualifying competitive switch provider must be using its 7 own self-deployed, "separate switches" to "actively provid[e]" voice service to mass market customers.²⁰⁹ Critically, any candidate CLEC also must be 8 9 "currently offering and able to provide service, and [be] likely to continue to do so.²¹⁰ All three "trigger" carriers must be "serving mass market customers in a 10 particular market with the use of their own switches."²¹¹ And, each such provider 11 must be a "true alternative" to the ILEC.²¹² 12 13 Each of these qualifications must be met before the Commission may find that the 14 self-provisioning trigger is satisfied. Together, these self-provisioning criteria 15 require the Commission to determine if today's mass market customers (both residential and small business) wherever located within the designated geographic 16 area have multiple independent, competitive alternatives to the incumbent's voice 17 18 grade service. Each of the carriers must be actively providing such competitive

²¹¹ *Id.* ¶ 501.

²⁰⁸ *Id.* ¶ 499.

²⁰⁹ Id.

²¹⁰ *Id.* ¶ 500.

²¹² *Id.* at ¶ 499.
1		service, and be likely to continue to actively provide that service over its own
2		switches in the future.
3	Q.	HOW DOES A CARRIER QUALIFY TO BE A TRIGGER CANDIDATE?
4	A.	Application of the FCC's triggers for mass market switching begins with the
5		identification of potential candidates for the analysis. The intent of the triggers is
6		to identify competitors who "demonstrate[] adequately the technical and
7		economic feasibility of an entrant serving the mass market with its own
8		switch." ²¹³
9		In making this identification in a trigger analysis, the Commission, by definition,
10		looks only at "actual deployment," <i>i.e.</i> , the places and customers that a CLEC
11		"currently" serves. ²¹⁴ Thus, the Commission cannot make any assumptions
12		regarding a CLEC's potential ability to serve other customers or locations without
13		moving away from a trigger analysis and to an unabridged "potential deployment"
14		analysis. This is true for two independent reasons. First, the "objective" data
15		reviewed in the trigger analysis does not include information on why or how the
16		CLEC was able to provide service without using the ILEC's switching, and the
17		CLEC's success may well be the result of unique or idiosyncratic circumstances.
18		Second, any conclusions about a CLEC's ability to expand its offering beyond the
19		offices where it currently offers service necessarily require predictive judgments
20		that are solely the function of the "potential deployment" test.

Id. ¶ 501.
 Id. n. 1561. See also id. ¶ 500 (requiring that trigger candidates be "currently" offering

Q. WHAT DOES IT MEAN THAT A CARRIER SELF DEPLOYING ITS OWN SWITCHING MUST BE A "TRUE ALTERNATIVE" TO THE ILEC?

4 A. Each competitive switch provider counted in the self-provisioning trigger must be a "true alternative" to the ILEC.²¹⁵ The FCC determined that its impairment 5 6 analysis "should center on those telecommunications services that competitors 7 provide in direct competition with the incumbent LECs' core services," including local exchange services, particularly POTS.²¹⁶ While the FCC adhered to the 8 9 requirement that a Track A facilities-based carrier for purposes of Section 271 10 must be a "competing" provider, the Triennial Review Order clarifies that the 11 standard used in the Track A analysis is less demanding than that applicable to the impairment standard.²¹⁷ Thus, only head-to-head competitors of the ILEC should 12 13 be considered. 14

²¹⁵ *Id.* at 499.

²¹⁶ *Id.* ¶ 139.

 $^{^{217}}$ Id. ¶ 230 (noting that wireless substitution was relied on in New Mexico and Nevada section 271 proceedings, but that CMRS providers do not yet provide the quality and breadth of services equal to the incumbent for purposes of impairment analysis); see also n. 1361 (finding wireless substitution to support Track A findings was "based on a different analysis than that required under the necessary and impair standards.")

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1	Q.	EXAMINING THE SPECIFIC ELIGIBILITY CRITERIA IN THE
2		TRIENNIAL REVIEW ORDER, WHAT SIGNIFICANCE SHOULD BE
3		GIVEN TO THE REQUIREMENT THAT A COMPETITIVE SWITCH
4		PROVIDER MUST BE "ACTIVELY PROVIDING" VOICE SERVICE?
5	A.	As discussed above, in order to be eligible to meet the self-provisioning trigger, a
6		competitive carrier must be "actively providing" voice service to mass market
7		customers in the market. ²¹⁸ The "actively providing" requirement should be
8		interpreted to mean, among other things, that any candidate CLEC must be
9		"currently offering and able to provide service, and [be] likely to continue to do
10		so." ²¹⁹ Thus, for example, a carrier that is using its own switching only to serve
11		"legacy" customers and not adding significant numbers of new UNE-L customers
12		cannot be deemed to be "actively" providing service. Rather, in order to count in
13		the trigger analysis, a carrier should be in a customer acquisition mode, focused
14		on growing its business through expanded use of self-deployed switching
15		capacity.
16	Q.	MUST A CARRIER BE ACTIVELY PROVIDING VOICE SERVICE, AS
17		OPPOSED TO, FOR EXAMPLE, DATA SERVICE ONLY, IN ORDER TO
18		COUNT IN A TRIGGER ANALYIS?
19	A.	Yes. The FCC was explicit that "the identified competitive switch providers
20		should be actively providing voice service to mass market customers in the

 $[\]begin{array}{c} ^{218} Id. \ \P \ 499. \\ ^{219} Id. \ \P \ 500. \end{array}$

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1		market." ²²⁰ This requirement is consistent with the FCC's definition of the mass
2		market, which consists of "analog voice customers that purchase only a limited
3		number of POTS lines, and can only be economically served via DSO loops."221
4		Thus, a carrier that does not offer voice service, or that offers it only incidentally
5		as part of an offer focused on delivery of other services, should not be eligible to
6		satisfy the self-provisioning trigger. Under this analysis, a carrier offering data
7		service over analog DSL lines, for example, is not serving traditional POTS end
8		users.
9	Q.	CAN A SWITCHING TRIGGER BE MET IF THE TRIGGER NOMINEES
10		ARE NOT ACTIVELY SERVING BOTH RESIDENTIAL AND SMALL
10 11		ARE NOT ACTIVELY SERVING BOTH RESIDENTIAL AND SMALL BUSINESS CUSTOMERS USING THEIR OWN SWITCHES?
10 11 12	A.	ARE NOT ACTIVELY SERVING BOTH RESIDENTIAL AND SMALL BUSINESS CUSTOMERS USING THEIR OWN SWITCHES? No. The mere presence of a switch-based CLEC cannot reasonably provide
10 11 12 13	A.	ARE NOT ACTIVELY SERVING BOTH RESIDENTIAL AND SMALLBUSINESS CUSTOMERS USING THEIR OWN SWITCHES?No. The mere presence of a switch-based CLEC cannot reasonably provideevidence of non-impairment in serving the mass market unless there is evidence
 10 11 12 13 14 	A.	ARE NOT ACTIVELY SERVING BOTH RESIDENTIAL AND SMALLBUSINESS CUSTOMERS USING THEIR OWN SWITCHES?No. The mere presence of a switch-based CLEC cannot reasonably provideevidence of non-impairment in serving the mass market unless there is evidencethat it has the "ability to serve each group of customers" within the relevant
 10 11 12 13 14 15 	A.	ARE NOT ACTIVELY SERVING BOTH RESIDENTIAL AND SMALL BUSINESS CUSTOMERS USING THEIR OWN SWITCHES? No. The mere presence of a switch-based CLEC cannot reasonably provide evidence of non-impairment in serving the mass market unless there is evidence that it has the "ability to serve each group of customers" within the relevant geographic area. ²²² As defined in the <i>Triennial Review Order</i> , the "mass market"
 10 11 12 13 14 15 16 	A.	ARE NOT ACTIVELY SERVING BOTH RESIDENTIAL AND SMALL BUSINESS CUSTOMERS USING THEIR OWN SWITCHES? No. The mere presence of a switch-based CLEC cannot reasonably provide evidence of non-impairment in serving the mass market unless there is evidence that it has the "ability to serve each group of customers" within the relevant geographic area. ²²² As defined in the <i>Triennial Review Order</i> , the "mass market" consists of <i>both</i> residential and small business customers who can only be
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²²⁰ Id. ¶ 318 (emphasis added).
²²¹ Id. ¶ 497.
²²² Id. ¶ 495.
²²³ Id. ¶ ¶ 127, 459.

1	with the approach the FCC took in the <i>Bell Atlantic/NYNEX Merger Order</i> . ²²⁴
2	Moreover, it is an appropriately "granular" view of the marketplace, because it
3	groups together all customers served by a specific network architecture (i.e., voice
4	grade loops). ²²⁵ Accordingly, CLECs that do not provide service to all types of
5	customers in the designated geographic area cannot reasonably qualify for
6	purpose of the trigger analysis.
7	Again, the trigger analysis is a surrogate for the results that would be obtained in a
8	full review of operational and economic barriers faced by carriers serving both
9	residential and small business customers. Thus, a trigger analysis that relies
10	primarily on evidence of competing switch providers that serve only small
11	business lines (with average revenues exceeding those of all mass market
12	customers on average) would not provide an economically rational view of the
13	impact of a determination that the trigger is met for the mass market as a whole,
14	which predominantly includes residential customers. Thus, without convincing
15	proof that three viable competitors are using their own switches today to serve
16	residential customers generally, the Commission should not find that the trigger
17	has been met. Indeed, the "clear and measurable benefit to consumers"

Bell Atlantic/NYNEX Merger Order, 12 FCC Rcd at 20016, para. 53.
 Indeed, this approach is further supported by the requirement that the Commission exclude from the "mass market" customers actually served with multiple voice grade loops that could economically be served by DS1 loops. ¶ 497

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1		unbundling standard cannot be met if either residential or small business
2		customers as a class are disregarded when applying the triggers. ²²⁶
3	Q.	SHOULD A COMPETITIVE SWITCH PROVIDER SERVING AN AREA
4		SMALLER THAN THE DEFINED GEOGRAPHIC MARKET AREA
5		COUNT TOWARD MEETING THE TRIGGER?
6	A.	No. Each carrier that "counts" toward the trigger must be "serving mass market
7		customers in a particular market with the use of [its] own switch[]."227 Thus, a
8		carrier reaching customers on a facilities basis in an area smaller than the defined
9		geographic market does not qualify for purposes of determining whether the
10		triggers are met in a larger area. Otherwise, the consumer welfare mandates of
11		the Triennial Review Order discussed below cannot be satisfied, because there is
12		no reasonable expectation that all customers within the defined area will have the
13		benefit of multiple, alternative sources of facilities-based competition.
14	Q.	IS THE VIEW THAT CARRIERS MUST BE SERVING THE ENTIRE
15		MARKET CONSISTENT WITH THE FCC'S REASONING?
16	A.	Yes. The FCC's potential deployment analysis recognizes that a carrier that
17		serves less than the entire mass market cannot meet the requirements of the
18		trigger analysis. In its discussion of the evidence of actual deployment of local
19		circuit switches as part of the potential deployment analysis, if the state finds that
20		a competitor "is serving the local exchange mass market with its own switch" the

 $\begin{array}{c} {}^{226} Id. n. 1332. \\ {}^{227} Id. \ \P 501. \end{array}$

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1	FCC directs the state commissions to "consider whether the entire market could
2	be served by this switch." ²²⁸ (emphasis added) Recognizing that a competitor
3	serving less than the entire market cannot satisfy the trigger (the actual
4	deployment prong), the FCC took an additional step of requiring the states to
5	decide if that switch could be used to service the entire market (the potential
6	deployment analysis). Clearly, the FCC's preferred outcome is that competitors
7	would be serving the entire market.
8	An interpretation that a competitor must be serving the entire market before it can
9	counted in the trigger analysis is also fully consistent with the effects of the
10	enterprise loop and dedicated transport triggers analysis, which were unanimously
11	agreed upon by the entire FCC and are the model for the switching triggers. ²²⁹
12	When those triggers are met, there is no question that all retail customers at a
13	particular location (for loops) have a reasonable opportunity to obtain loop
14	facilities from alternative suppliers. ²³⁰ Similarly, when the transport trigger is
15	met, all CLECs needing to transport traffic along a particular route will have
16	actual access to meaningful competitive alternatives to unbundled ILEC
17	facilities. ²³¹ Notably, in that context as well, the FCC expressed concern that if

²²⁸ Id. ¶ 510.

²²⁹ The FCC majority emphasized that its approach to triggers for mass market switching is "essentially identical" to what the entire Commission agreed to with respect to the triggers for high capacity loops and dedicated transport. *Id.* n. 1315. ²³⁰ The FCC's insistence that each end user should have the benefit of competitive alternatives

is evident, for example, in its requirement that wholesale high-capacity loop providers have access to the entirety of a multiunit customer premises and that they offer alternative facilities on "a widely available wholesale basis." $Id \parallel 337$. ²³¹ $Id. \parallel \P 329, 400-401$.

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1	the triggers are met carriers must "remain capable of serving end-user customers
2	in all areas." ²³² If the Commission were to use a less exacting standard in
3	applying the mass market switching triggers, the results would not be consistent
4	with those flowing from the use of the loop and transport triggers and would not
5	be "economically rational," ²³³ because consumers would be left unprotected from
6	the ILEC's market power.
7	Thus a requirement that customers and locations within a defined geographic area
8	may not be overlooked when applying the triggers is also consistent with the
9	FCC's explanation of the impairment standard. With respect to the former, the
10	FCC is clear that the competition thresholds incorporated in its current special
11	access pricing flexibility rules (which granted such flexibility based on the
12	percentage of central offices where CLECs are physically collocated within a
13	Metropolitan Statistical Area (MSA)) are not a proper basis to measure
14	impairment. ²³⁴ Rather, the FCC expressly <i>declined</i> to apply that same concept to
15	impairment, because it recognized that even if competition "in some parts of a
16	market" may be sufficient to constrain pricing throughout a larger area, it may be

²³⁴ For purposes of setting its pricing flexibility rules, the FCC accepted (albeit incorrectly, as experience has shown) that facilities-based competition in some but not all locations within a geographic area may be sufficient to constrain anticompetitive pricing in the larger area. Id. ¶ 104. Notably, the FCC recognized in the Pricing Flexibility Order itself that the standards applicable to pricing flexibility would not necessarily be the same as those applicable to unbundling. See Access Charge Reform, CC94-1, CCB/CPD File No. 98-157, Docket Nos. 96-262, Fifth Report and Order and Further Notice of Proposed 14 FCC Rcd 14221, 14224-25, (1999) 98-63, Rulemaking, (Pricing Flexibility Order).

1		"insufficient to demonstrate a lack of impairment." ²³⁵ The FCC explained that the
2		distinction is that the competition threshold for pricing flexibility (i.e.,
3		collocations in some but not all central offices throughout an MSA) is aimed only
4		at protecting consumers from anticompetitive pricing, while the unbundling rules
5		"go to asking whether entry into a market is economic and to serving a host of
6		statutory goals beyond protecting consumers from anticompetitive pricing."236
7		Thus, it is critical that a trigger cannot be met unless the "trigger eligible" carriers
8		are able to offer service throughout the designated area.
9	Q.	DO THE RBOCs AGREE THAT CARRIERS MUST BE SERVING THE
10		ENTIRE MARKET TO QUALIFY AS TRIGGER CANDIDATES?
10 11	A.	ENTIRE MARKET TO QUALIFY AS TRIGGER CANDIDATES? Apparently so. In their arguments to the Court of Appeals about the <i>Triennial</i>
10 11 12	A.	ENTIRE MARKET TO QUALIFY AS TRIGGER CANDIDATES? Apparently so. In their arguments to the Court of Appeals about the <i>Triennial Review Order</i> , the ILECs harshly criticized the FCC for setting higher
10 11 12 13	A.	ENTIRE MARKET TO QUALIFY AS TRIGGER CANDIDATES?Apparently so. In their arguments to the Court of Appeals about the <i>TriennialReview Order</i> , the ILECs harshly criticized the FCC for setting highercompetitive thresholds for unbundling than those incorporated in the current
10 11 12 13 14	A.	ENTIRE MARKET TO QUALIFY AS TRIGGER CANDIDATES?Apparently so. In their arguments to the Court of Appeals about the <i>TriennialReview Order</i> , the ILECs harshly criticized the FCC for setting highercompetitive thresholds for unbundling than those incorporated in the currentpricing flexibility rules. ²³⁷ In addition to complaining that the FCC should not
10 11 12 13 14 15	A.	ENTIRE MARKET TO QUALIFY AS TRIGGER CANDIDATES?Apparently so. In their arguments to the Court of Appeals about the TriennialReview Order, the ILECs harshly criticized the FCC for setting highercompetitive thresholds for unbundling than those incorporated in the currentpricing flexibility rules. ²³⁷ In addition to complaining that the FCC should nothave required actual competitive alternatives on a location-specific basis in its
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²³⁵ TRO, ¶104.
²³⁶ Id.
²³⁷ Reply Brief in Support of Petitions for Writ of Mandamus to Enforce the Mandate of this
²³⁷ Write L Status Talacom Assoc. v. FCC. Nos. 00-1012, 00-1015, p.12-13 (Oct. 16, 2003).

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1		facilities-based competition. ²³⁸ Those criticisms, however misplaced, underscore
2		that the Order requires evidence that a market is already "fully competitive"
3		based on the service provided by "four operating facilities-based competitors
4		(including the incumbent)" before a self-provisioning trigger can be met. ²³⁹
5	Q.	WHAT THRESHOLDS SHOULD THE COMMISSION ESTABLISH FOR
6		HOW MANY MASS MARKET CUSTOMERS A COMPETING SWITCH
7		PROVIDER MUST SERVE?
8	A.	A CLEC that only serves a small number or proportion of customers, or focuses
9		only on a niche within the mass market is not serving a competitively meaningful
10		number of customers. Thus, its presence is not meaningful evidence of non-
11		impairment. ²⁴⁰ Moreover, a CLEC that lacks adequate scale in its current
12		operations does not demonstrate a significant likelihood that it will be able to
13		"continue" to offer facilities-based service, ²⁴¹ especially in the mass market,
14		which the FCC recognizes is characterized by both low margins and substantial
15		churn. ²⁴² Indeed, scale is critical in the mass market, because competitors cannot
16		rely on long term contracts to assure that they will recover the additional costs
17		they must incur (a large portion of which are sunk) to provide service for each

²³⁹ *Id*.

²³⁸ Id. at 11.

 $^{^{240}}$ Id. ¶ 438 (Bell Operating Company claim that three million residential lines were served using CLEC switches as of year-end 2001, even if accepted as true, represents only a small percentage (less than three p ercent of reported residential voice lines) and does not accurately depict entering competitors' abilities to overcome barriers to entry from hot cut process to serve the mass market using incumbent LEC loops). ²⁴¹ See Id. ¶ 500. ²⁴² Id. ¶¶ 471, 474.

1	individual analog loop. ²⁴³ Notably, the FCC recognizes that "if scale economies
2	are present, it would be difficult for an entrant with a small market share to
3	achieve costs as low as the TELRIC price."244
4	Nor does a carrier that serves only a niche demonstrate that it is capable of
5	serving "the mass market." This is particularly important, because the FCC's test
6	for economic impairment properly assumes that an efficient CLEC can only
7	expect to earn the "typical revenues gained from serving the average customers"
8	in the mass market. ²⁴⁵ This requirement is sensible for many reasons, not the least
9	of which is that any other standard (particularly one based on so-called "cherry-
10	picking") would effectively prevent most mass market customers from enjoying
11	the benefits of competition. Although all carriers (including the ILEC) reasonably
12	focus on attracting the highest revenue customers, no carrier can expect to win
13	and retain a disproportionate share of the small number of high margin
14	customers. ²⁴⁶ Accordingly, if a proposed "trigger" CLEC only serves customers
15	with high revenues, its existence clearly does not demonstrate that it can (or
16	would) serve the mass market in general. And just as important, it does not

²⁴³ *Id.* ¶ 237.

²⁴⁵ *Id.* ¶ 472.

²⁴⁴ *Id.* n. 379.

For example, if the efficient CLEC needs about a 10 percent market share in order to achieve its efficient scale and only 20 percent of customers qualified as the "high revenue" segment, that carrier would need to win -- and retain -- half of all those high value customers to achieve the necessary scale. Not only is this an irrational assumption with respect to initial customer acquisitions, it is even more irrational to assume that the ILEC would not take extraordinary steps to win those customers back.

1		demonstrate that the "efficient CLEC" reviewed under the potential deployment
2		test would be able to serve "the mass market" profitably.
3		Therefore, in order to be eligible to meet a trigger, each nominated self-
4		provisioning carrier should be <i>currently</i> providing service to a competitively
5		meaningful number of customers, which, consistent with the FCC's findings in
6		the Triennial Review Order, should be more than three percent of the total mass
7		market demand in a specific area. ²⁴⁷ Moreover, in order to be able to maintain the
8		consumer benefits already achieved, those carriers should also be capable of
9		serving the entire UNE-L and UNE-P demand already established in that same
10		area, and be able to continue to do so for the foreseeable future.
1 1		
11	Q.	WHERE DOES THE 3 PERCENT RECOMMENDATION COME FROM?
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11 12 13	Q. A.	WHERE DOES THE 3 PERCENT RECOMMENDATION COME FROM? When presented with claims that three million residential lines use competitive switches (less than 3 percent of residential voice lines), the FCC concluded that
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11 12 13 14 15 16 17 18	Q. A.	WHERE DOES THE 3 PERCENT RECOMMENDATION COME FROM? When presented with claims that three million residential lines use competitive switches (less than 3 percent of residential voice lines), the FCC concluded that the line count "does not accurately depict the ability of an entering competitive LEC to overcome the barriers to entry generated by the hot cut process, and to serve the mass market using incumbent LEC loops." ²⁴⁸ Thus, self-providers serving competitively insignificant numbers of mass market customers cannot act as proxies for the likelihood that further UNE-L entry is economically or

 $^{^{247}}$ Id. ¶ 438 (finding that national facilities-based competition of three percent insufficient to demonstrate a lack of impairment). 248 Id. ¶ 438-439.

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1	Overall, when considering a reasonable number or percentage of lines that would
2	need to be served within a defined market to make a carrier "count" in the trigger
3	analysis, the Commission should be mindful of the FCC's acknowledgement that
4	"producing telecommunications services requires very substantial economies of
5	scale and scope." ²⁴⁹ Many of the competitors' average costs will be higher than
6	those of the incumbent, because competitors are "likely to achieve substantially
7	smaller levels of sales than the incumbent." ²⁵⁰ Further, the current number of
8	lines a carrier serves using its own switch may be small, or its new acquisition
9	rates limited, because of existing limitations in its switching capacity. Because
10	the maturity, extent and stability of facilities-based competition that is not reliant
11	on the incumbent's unbundled switching is key, the Commission should "count"
12	in the trigger analysis only those carriers who have achieved at least the minimal
13	penetration rate necessary to attain efficient scale.
14	As discussed above, the trigger analysis cannot rationally result in a finding of
15	impairment when the opposite result would be reached under the operational and
16	economic impairment analysis. Accordingly, it may be reasonable to consider the
17	size of the customer base that is necessary for a hypothetical, efficient CLEC
18	using optimal technology to make sound investments and offer service to the mass
19	market economically over non-incumbent facilities. To the extent any proposed
20	carrier identified as a self provider is not individually reaching that number or

²⁴⁹ *Id.* ¶ 86. ²⁵⁰ *Id.* ¶ 87 (emphasis added).

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1		percentage of mass market customers, the Commission should be very concerned
2		that it does not qualify as a provider actively serving the mass market. It may be
3		instructive for the purpose of gauging the penetration a carrier would need to
4		achieve to make a mass market UNE-L offer viable for the long term to assume,
5		at a minimum, a 5 to 10 percent penetration (per carrier) of the lines served in
6		wire centers exceeding 5,000 lines. ²⁵¹ While a 5 to 10 percent penetration rate
7		may not in fact cause such an entry to be economic, it provides a bare minimum
8		standard for determining whether each carrier is "actively providing" service in
9		the defined market and likely to be able to continue to do so in the future. ²⁵²
10	Q.	SHOULD CARRIERS DEPLOYING ENTERPRISE SWITCHES AND
11		ONLY INCIDENTALLY PROVIDING COMPARATIVELY FEW
12		ANALOG LOOPS COUNT IN THE TRIGGER ANALYSIS?
12 13	A.	ANALOG LOOPS COUNT IN THE TRIGGER ANALYSIS? No. A CLEC serving predominantly enterprise customers over digital loops and
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12 13 14 15 16 17	A.	ANALOG LOOPS COUNT IN THE TRIGGER ANALYSIS? No. A CLEC serving predominantly enterprise customers over digital loops and using its enterprise switch only incidentally to provide a small number of analog lines (<i>e.g.</i> , for fax service) should not be counted for purposes of applying a trigger. Neither the actual experience, nor the business plan, of such a CLEC demonstrates it is economically feasible to serve typical mass market customers.

 ²⁵¹ Id. n. 1493 (FCC notes that even RBOC data do not support a finding of non-impairment in offices of 5,000 lines or less)
 ²⁵² If competitive mass market penetration in a specific area represents a greater total share

²⁵² If competitive mass market penetration in a specific area represents a greater total share than three times the minimum established by the Commission, the Commission should assure itself that the trigger companies could absorb all of that demand if it were to find a trigger is met and UNE-P would no longer be available.

1		Indeed, the FCC explicitly concluded that "switches serving the enterprise market
2		do not qualify for the triggers." ²⁵³
3	Q.	SHOULD CARRIERS WHOSE MARKET ENTRY PLAN IS NOT
4		REPRESENTATIVE OF THE ABILITY OF OTHER CLECS TO ENTER
5		USING THEIR OWN FACILITIES COUNT IN THE TRIGGER
6		ANALYSIS?
7	A.	For reasons similar to those stated above, a carrier that serves only a defined niche
8		in the mass market also should not qualify as a carrier that meets a trigger.
9		Success in executing an idiosyncratic market plan, particularly one that was based
10		a unique set of circumstances that applies only to a limited set of customers, does
11		not demonstrate that that carrier could reasonably serve the mass market
12		generally. Carriers that serve "niche" customer segments (e.g., customers with
13		poor credit, high revenue customers) also should not be counted in the trigger
14		analysis because their actual use of switching does not reflect competitors' ability
15		to serve average customers that generate typical revenues.

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1	Q.	MAY THE COMMISSION SIMPLY "COUNT TO THREE" WITHOUT
2		REGARD TO THE SUITABILITY OF A SELF-PROVISIONING CLEC
3		AS A PROXY FOR ECONOMIC ENTRY OPPORTUNITIES WITHOUT
4		ACCESS TO UNBUNDLED SWITCHING?
5	A.	Absolutely not. Identifying CLECs that are actively serving the mass market
6		using their own switches is a valid exercise only if the identified competitors have
7		staying power and are representative of similar opportunities available to other
8		competitors. Indeed, if the trigger analysis were intended as an entirely
9		mechanical task, the FCC would not have concluded that it should be conducted
10		by state commissions, which the FCC found are best positioned "to gather and
11		access the information" necessary to make such determinations.
12	Q.	SHOULD CUSTOMER WELFARE BE TAKEN INTO ACCOUNT IN THE
13		TRIGGER ANALYSIS?
14	A.	Yes. In describing the impact of its impairment analysis for unbundled switching,
15		the FCC's majority stated that its approach "maintains appropriate incentives
16		without throwing away the competition that exists today." ²⁵⁴ Thus, the FCC
17		assumes that application of <i>either</i> the trigger or the unabridged impairment
18		analysis will not reduce the competitive options available today to mass market

²⁵⁴ Id. n. 1365 (emphasis added).

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1		consumers. ²⁵⁵ Thus, it recognized that the "clear and measurable benefit to
2		consumers" standard must be applied when addressing unbundled switching. ²⁵⁶
3		Moreover, the FCC recognized that impairment may be found even in places
4		where sufficient competition exists to constrain prices and to protect consumers
5		from anticompetitive pricing. ²⁵⁷ This is a dramatic statement of the quality and
6		quantity of switch-based competition that state commissions should find before
7		concluding that CLECs in a particular geographic area are no longer impaired
8		without access to mass market switching. To apply a familiar dictum from the
9		field of medicine to the local competition decisions the Commission will be
10		facing, "First, do no harm." It would be antithetical to the goals of the Act if a
11		Commission decision on triggers resulted in less consumer choice, less
12		competition and higher prices.
13	Q.	HOW DID THE FCC'S ERRATA IMPACT HOW THE COMPETITIVE
14		TRIGGERS ARE TO BE APPLIED IN A DEFINED MARKET?
15	A.	The FCC's Errata modifies language in the Triennial Review Order, for example
16		in paragraph 499, regarding application of the triggers within a geographic area.
17		The FCC issued the Errata following outcries from the ILECs complaining that
18		the original language of the order would have required that each unaffiliated self-

²⁵⁵ Indeed, the entire FCC also stated its expectation that where consumer benefits do not follow from increased CLEC investment in facilities because such investment is uneconomic, those network elements will continued to be unbundled. *Id.* n. 233. ²⁵⁶ *Id.* ¶ 1332. ²⁵⁷ *Id.* ¶ 104 ("competition in some parts of a market may be sufficient to constrain prices, but

insufficient to demonstrate a lack of impairment").

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1		provider counted for a trigger be economically and operationally capable of
2		serving each and every individual customer, without exception, within the defined
3		geographic area. In other words, the existence of a single customer exception
4		would have disqualified a provider from being counted as a trigger. This extreme
5		reading of the original language, which assumed a requirement of four facilities-
6		based competitors (including the incumbent) of "carrier of last resort" size to meet
7		the trigger was hyperbolic. Thus, the Errata addresses the ILECs' essentially
8		phantom concern, but it does not and cannot turn the entire order on its head.
9		Indeed, the ILECs themselves have argued an errata cannot be relied upon to
10		make substantive changes to an FCC order. ²⁵⁸ Nor can the removal of a few
11		sentences change the entire tenor of a 500-page order. Indeed, the ILECs have
12		further complained that the "so called erratum replaces a standard that was
13		affirmatively inconsistent" with earlier Court of Appeals guidance on unbundling
14		"with no standard at all." ²⁵⁹ But the ILECs are wrong when they argue that the
15		order leaves state commissions "standardless" with regard to the triggers.
16	Q.	HOW SHOULD THE COMMISSION EVALUATE THE DATA

17 PRESENTED FOR A TRIGGER ANALYSIS, SINCE THOSE DATA ARE

http://gullfoss2.fcc.gov/prod/ecfs/retrieve.cgi?native or pdf=pdf&id document=6514286634. ²⁵⁹ Reply Brief in Support of Petitions for Writ of Mandamus to Enforce the Mandate of this Court, *United States Telecom Assoc. v. FCC*, Nos. 00-1012, 00-1015, p.11 n. 8 (Oct. 16, 2003).

²⁵⁸ See, e.g., Ex Parte Letter from Joseph Mulieri, Verizon, to Marlene Dortch, FCC (filed CC Docket 94-157, July 21, 2003), *supra*, found at

1		NOT DIRECTLY RELATED TO A COMPREHENSIVE REVIEW OF
2		ECONOMIC AND OPERATIONAL IMPAIRMENT?
3	A.	The result of any rational trigger analysis is a surrogate for the results that would
4		be obtained after a complete review of the facts on economic and operational
5		impairment. Indeed, the FCC stated that evidence of actual competitive use of
6		alternative network elements is to be used to "show[] whether new entrants, as
7		a practical matter, <i>have surmounted barriers to entry</i> in the relevant market." ²⁶⁰
8		Part of the challenge for state commissions, however, is that there are no studies
9		proving out the reliability of the trigger analysis. Nor are there any studies that
10		verify the adequacy of the trigger analysis as a substitute for a detailed
11		impairment analysis under a variety of conditions.
12		On the other hand, it is clear that use of a rote shorthand formula cannot
13		reasonably substitute for a more detailed review unless experience has shown that
14		the former virtually always arrives at the same results as the latter. Therefore, the
15		Commission should review all data presented in support of a trigger analysis with
16		care, and it should develop threshold criteria for applying those data that
17		reasonably assure that a trigger will only be met in areas where CLECs have in
18		fact "surmounted" the nationally recognized entry barriers.

 $^{^{260}}$ TRO, ¶ 93. This is consistent with the use of abbreviated versions of analysis in other legal contexts, which is justified only by a demonstration that the use of a "short form" analysis does not impact the reliability of results.

1	Q.	HOW SHOULD THE COMMISSION ASSURE ITSELF THAT THE
2		TRIGGER ANALYSIS PRODUCES A RATIONAL RESULT?
3	A.	The underlying assumption of the Triennial Review Order is that the triggers will
4		be met only where the defined area: (1) already supports multiple, actively
5		competitive carriers that use non-ILEC switching to serve the mass market and (2)
6		can be expected to continue to do so in the future (3) without losing the
7		competitive gains made to date. If the evidence does not provide strong support
8		for such a conclusion, the Commission should find that the triggers are not met.
9	Q.	IS MERE EVIDENCE OF FACILITIES DEPLOYMENT ALONE
10		SUFFICIENT UNDER THE TRIENNIAL REVIEW ORDER TO
11		DETERMINE THAT THE TRIGGERS HAVE BEEN MET?
12	A.	No. As noted above, the FCC expressly rejected arguments by the ILECs that
13		"evidence of facilities deployment by competitive CLECs" must or even can be
14		treated as "conclusive or presumptive of a particular outcome without additional
15		<i>information or analysis</i> ." ²⁶¹ Thus, although evidence of actual facility
16		deployment by CLECs "may indicate a lack of impairment," the FCC expressly
17		disagreed with ILEC assertions that such evidence should be "dispositive of [or
18		create] a rebuttable presumption of no impairment." ²⁶² Instead, the FCC
19		acknowledged that "[i]n deciding what weight to give this evidence" and thus

²⁶¹ TRO, ¶ 94 (emphasis added). The FCC expressly declined to presume, for example, that the facilities deployment levels sufficient to support a grant of pricing flexibility in a market would require a finding of lack of impairment. Id. ¶ 104.

²⁶² *Id.* ¶ 94.

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1		whether it is probative of a claim of non-impairment a Commission must
2		consider factors such as "how extensively carriers have been able to deploy such
3		alternatives, to serve what extent of the market, and how mature and stable that
4		market is." ²⁶³ Moreover, the FCC found that evidence that competitors using
5		their own switches for other purposes have not converted them to serve mass
6		market customers bolsters its findings that significant barriers make use of CLEC
7		switching to serve such customers uneconomic. ²⁶⁴ Thus, any notion that the
8		trigger analysis is simply a matter of counting switches, particularly those
9		switches used to serve the enterprise market, must be soundly rejected.
10	Q.	HOW DOES THE "LIKELY TO CONTINUE TO PROVIDE SERVICE"
11		REQUIREMENT APPLY IN IDENTIFYING SELF PROVIDERS FOR
11 12		REQUIREMENT APPLY IN IDENTIFYING SELF PROVIDERS FOR THE TRIGGER ANALYSIS?
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²⁶³ *Id.* (emphasis added) ²⁶⁴ *Id.* n. 1365 & n. 1371.

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1		demonstrate that it is economically capable of expanding its mass market
2		penetration using UNE-L. Indeed, such a carrier is real-world proof that its
3		chosen form of entry is not economic, or at least is viable only for a limited
4		number of customers rather than the mass market generally. In either case, its
5		mere existence does not provide evidence that it (or any other CLEC) is not
6		impaired in serving the mass market generally. And its inability to attain
7		reasonable scale means that it has limited if any ability to constrain the
8		ILEC's market power or to assure that mass market customers generally will be
9		able to enjoy the lower prices, innovation and improved customer service that
10		inevitably results from full and open competition.
11		2. Wholesale Trigger
12	Q.	WHAT DID THE FCC OBSERVE ABOUT THE EXISTENCE OF THE
13		WHOLESALE SWITCHING MARKET TODAY?
14	A.	The FCC found that "no significant third-party alternatives to unbundling local
15		switching exist." ²⁶⁵ Accordingly, it is doubtful that the wholesale trigger will be
16		the focus of trigger applications regarding mass market switching.
17	Q.	WHAT ARE THE ATTRIBUTES OF A QUALIFYING WHOLESALE
18		PROVIDER UNDER THE MASS MARKET SWITCHING TRIGGER
10		ANAI VSIS?

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1	A.	Wholesale carriers must be "actively providing [on a wholesale basis] voice
2		service used to serve the mass market, and be operationally ready and willing to
3		provide service to all competitive providers in the designated market."266
4		Further, wholesale carriers should be capable of "provid[ing] competitive
5		pressures on pricing and terms." ²⁶⁷
6	Q.	TO WHAT EXTENT SHOULD A QUALIFYING WHOLESALE
7		CARRIER BE SERVING IN THE GEOGRAPHIC MARKET?
8	A.	Satisfaction of this trigger must demonstrate that current UNE-P carriers and
9		other future competitive providers can look to the identified wholesaler as an
10		alternate source of unbundled switching. If in fact a carrier cannot fill that role,
11		either because it is unwilling to do so or because no proof exists that it is
12		operationally ready to do so, the carrier does not qualify for consideration under
13		the trigger analysis. Thus, as the FCC emphasized in its discussion of wholesale
14		alternative transport suppliers, the substitute facility must be "widely available" in
15		order to count in the trigger analysis. ²⁶⁸
16	Q.	WHAT DOES IT MEAN TO BE OPERATIONALLY READY TO SERVE
17		ALL COMPETING PROVIDERS IN THE GEOGRAPHIC MARKET?
18	A.	To qualify as a third-party wholesaler under the trigger analysis, a carrier must be
19		in all respects a substitute source of unbundled local switching. The ability to
20		serve as an alternative to the incumbent requires more than just having sufficient

²⁶⁶ Id. ¶ 499 (emphasis added).
²⁶⁷ Id. ¶ 505.
²⁶⁸ Id. ¶ 414.

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1		switching capacity available, although limitations in that capacity obviously
2		would disqualify a potential candidate. Beyond sufficient switching capacity, an
3		unaffiliated wholesaler must be able to "provide a means of accessing the local
4		loop," an attribute which the FCC found to be "a crucial function" of the
5		incumbent's local circuit switch. ²⁶⁹ Further, a substitute wholesaler must offer
6		competing providers the full range of pre-ordering, ordering and provisioning,
7		maintenance, and billing functionalities necessary to support customer
8		acquisition, migration, and care. And those operational support functionalities
9		must be available on a scale sufficient to serve all CLECs in the designated area.
10		The Commission must satisfy itself that the evidence of operational readiness and
11		scalability to serve all competing providers is clear before a carrier can be deemed
12		an unbundled switching wholesale alternative.
13	Q.	HOW CAN THE COMMISSION ENSURE THAT ITS IDENTIFICATION
14		OF QUALIFYING WHOLESALE PROVIDERS IS CONSISTENT WITH
15		STANDARDS SET FORTH IN THE TRIENNIAL REVIEW ORDER?
16	A.	At a minimum, before an identified wholesale switching provider should "count"
17		in the trigger analysis, the Commission should examine how the incumbent has
18		reacted in its wholesale pricing, marketing, and innovation in response to the
19		alternative wholesaler's presence in the market. If the offering of the alternative
20		wholesale provider has not directly caused the incumbent to: (1) drop its prices

 269 Id. ¶ 439.

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1		for unbundled switching, (2) aggressively market wholesale switching to CLECs,
2		and (3) introduce service and product innovation, including expanded offerings
3		delivered as a result of increased investment in new technology, then impairment
4		still exists regardless of whether two or more wholesalers technically operate in
5		the market.
6	Q.	WHAT EVIDENCE OF PRICE DISCIPLINING COMPETITION
7		SHOULD TAKEN INTO ACCOUNT?
8	A.	A carrier that is so small that it can only engage in "umbrella pricing," <i>i.e.</i> one
9		that offers services at prices "immediately below the price of the larger market
10		leader," perhaps only for some segment of the mass market as a whole, "but does
11		not have sufficient presence market-wide to affect the market leader's price," does
12		not have the kind of market presence that should be counted toward the
13		triggers. ²⁷⁰
14		This is consistent with the proper focus of the entire impairment analysis on
15		consumer welfare. ²⁷¹ The mass market switching triggers are not met unless the
16		facts on the ground prove that the mass market is generally contestable by CLECs
17		without using unbundled switching, <i>i.e.</i> that there is sufficient market pressure to
18		restrain ILEC pricing to cost-based levels and force product innovations. ²⁷²
19 20		C. THE ROLE OF INTERMODAL COMPETITION IN AN EXAMINATION OF IMPAIRMENT.

 $[\]begin{array}{c} \hline 270 & Id. & \P\P 505, 413, \& n. 1275. \\ \hline 271 & Id. & \P\P 1, 139, 161. \\ \hline 272 & Id. & \P 94. \end{array}$

1	Q.	HOW SHOULD THE EXISTENCE OF INTERMODAL COMPETITORS
2		BE FACTORED INTO THE IMPAIRMENT ANALYSIS?
3	A.	The FCC defines "intermodal" as referring generally to facilities or technologies
4		"other than those found in traditional telephone networks" ²⁷³ and confirms that it
5		does "not find the presence of intermodal alternatives dispositive in our
6		impairment analysis"274 Providers of telephony services may not be counted
7		toward the trigger aspect of the impairment analysis unless they are shown to
8		provide "alternatives [that] are comparable in cost, quality, and maturity to
9		incumbent LEC services." ²⁷⁵ All proposed trigger candidates that supply voice
10		services using other than circuit switches must be reviewed under these criteria. ²⁷⁶
11	Q.	HOW SHOULD CABLE COMPANIES BE EVALUATED IN ANY
12		ASPECT OF THE IMPAIRMENT ANALYSIS?
13	A.	The FCC found that "[c]able telephony and cable modem service, for example
14		have developed because cable operators have been able to overlay additional
15		capabilities onto networks that they built for other purposes, often under
16		government franchises, and therefore have <i>first-mover advantages</i> and <i>scope</i>
17		economies not available to other new entrants, which lower their incremental
18		costs of providing the additional services." ²⁷⁷ Thus, the FCC correctly stated that

²⁷³ Id. n. 325.
²⁷⁴ Id. ¶ 97.
²⁷⁵ Id. & n. 1549.
²⁷⁶ Id.¶ 97 ("[W]e do not find the presence of intermodal alternatives dispositive in our impairment analysis, as some commentators suggest").
²⁷⁷ Id. ¶ 98 (emphasis added).

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1	it "may give less weight to intermodal alternatives that do not provide evidence
2	that self-deployment of such access is possible to other entrants. In addition, if
3	the record evidence shows that there are limitations on the number or types of
4	customers that can be served by a particular technology, we will consider whether
5	an entrant could use this technology profitably to target only those customers that
6	can be served by the alternative technology." ²⁷⁸
7	This is consistent with the FCC's directive that "when one or more of the three
8	competitive providers is also self-deploying its own local loop, this evidence may
9	bear less heavily on the ability to use a self-deployed switch as a means of
10	accessing the incumbent's loop." ²⁷⁹ In addition, the FCC notes that it "may give
11	less weight" to intermodal alternatives that "do not provide evidence that self-
12	deployment of such access is possible to other entrants." ²⁸⁰ Fundamentally, as the
13	FCC recognizes, the ability of a competitor to enter using self-deployed switching
14	is different if access to the incumbent's local loops is required. ²⁸¹ The
15	overwhelming majority of competitors serving the mass market still require
16	connectivity to the incumbent's local loop facilities, a factor that must be
17	accounted for in any impairment analysis. Thus, as the Triennial Review Order
18	concludes, cable telephony facilities deployment "provides no evidence that

- ²⁷⁸ Id. ²⁷⁹ Id. n. 1560. ²⁸⁰ Id. ¶ 98. ²⁸¹ Id. ¶ 439.

1		competitors have successfully self-deployed switches as a means to access the
2		incumbents' local loops."282
3	Q.	SHOULD WIRELESS CARRIERS BE "COUNTED" IN THE TRIGGER
4		ANALYSIS APPLICABLE TO MASS MARKET SWITCHING?
5	A.	No. Commercial Mobile Radio Service (CMRS) providers may not be considered
6		in application of the triggers because the FCC expressly found that "wireless is
7		not yet a suitable substitute for local circuit switching." ²⁸³ Citing the small
8		number of CMRS subscribers (three to five percent) who use wireless service as a
9		replacement for fixed wireline service, the FCC also concluded that "CMRS does
10		not equal traditional incumbent LEC services in its quality its ability to handle
11		data traffic, its ubiquity, and its ability to provide broadband services to the mass
12		market." ²⁸⁴ This observation applies to all alternate forms of wireless
13		technologies, including satellite, mobile, and fixed.
14		On the specific issue as to whether they should be considered in the trigger
15		analysis, the FCC states unequivocally, "we do not expect state commissions to
16		consider CMRS providers in their application of the triggers." ²⁸⁵ Thus, any

²⁸² *Id.* ¶ 440.

 $^{^{283}}$ Id. ¶ 445.

 $^{^{284}}$ Id. n.1549; see also ¶ 445 ("wireless CMRS connections in general do not yet equal traditional landline facilities in their quality and their ability to handle data traffic"). The FCC cites evidence in its record that wireless service is engineered to provide only roughly 70 percent call completion rate while wireline call completion rates exceed 99 percent. Id. n. 1363.

²⁸⁵ *Id.* n. 1549 (emphasis added).

1		CMRS providers proposed by Qwest as supporting a case that triggers have been
2		met should be excluded from consideration.
3		Indeed, the FCC's conclusion was echoed in recent comments from SBC's Chief
4		Executive Edward E. Whitacre, Jr. who recently agreed that wireless is "not going
5		to displace the wire-line network It's never going to be the substitute.
6		Reliability is one reason." ²⁸⁶
7	Q.	ARE THERE OTHER INTERMODAL ALTERNATIVES THAT SHOULD
8		BE GIVEN WEIGHT IN A TRIGGER ANALYSIS FOR MASS MARKET
9		LOCAL SWITCHING?
10	A.	No, unless it is demonstrated that they are actively in use, actually providing
11		service to mass market customers according to the criteria described above, and
12		are shown to provide service that is equivalent to ILEC wireline local service in
13		terms of cost, quality and maturity. As the FCC stated, impairment analyses
14		necessarily focus on "the current technical capabilities, economic characteristics,
15		and patterns of use of intermodal alternatives," with the expectation that "changes
16		going forward" may affect future impairment proceedings.287
17	Q.	HOW DOES THE FCC'S EMPHASIS ON CURRENT TECHNICAL
18		CAPABILITIES IMPACT CONSIDERATION OF VOICE OVER
19		INTERNET PROTOCOL (VoIP) AS A RELEVANT INTERMODAL

 ²⁸⁶ "A Wireless World," *Business Week*, p. 111 (Oct. 27, 2003).
 ²⁸⁷ TRO, n. 331.

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1		TECHNOLOGY FOR THE MASS MARKET SWITCHING
2		IMPAIRMENT ANALYSIS?
3	A.	Voice Over Internet Protocol (VoIP) is an example of an emerging technology
4		that may become a promising alternative to traditional circuit architecture in some
5		circumstances. Today, however, VoIP has not yet achieved the degree of
6		substitutability necessary to have it weigh into or impact the mass market
7		unbundled switching impairment analysis. Its current limitations as a substitute
8		for delivery of voice service "comparable in cost, quality, and maturity to
9		incumbent LEC services" ²⁸⁸ are well known.
10		First, unlike today's customers using traditional landline services, VoIP
11		subscribers will experience a loss of service in the event of any power failure.
12		This occurs because the end user must use AC power for the phone adaptor unit
13		that is necessary to convert the signal from the analog handset into the IP packets
14		required for transmission over the IP based data network. Other customer
15		acceptance issues exist as well. Because phone service is provided through this
16		power adaptor, the customer's existing phone jacks and the "phone extensions"
17		supported by those jacks are rendered useless. As a result, end users who use
18		jacks to provide access through extensions, must be willing to replace their
19		existing "home network architecture" with either cordless phones or wireless
20		phone jacks, a transition that can be costly. And, from a call quality perspective,

²⁸⁸ Id. n. 1549.

17	Q.	HOW SHOULD THE COMMISSION CONDUCT THE FULL FLEDGED
16		D. CONDUCTING THE IMPAIRMENT ANALYSIS.
15		assistance should be dispatched.
14		of the emergency, the assistance needed, and the location where emergency
13		communicate information sufficient to allow the dispatcher to identify the nature
12		condition, and the exigencies of the circumstances) must be able to verbally
11		automatically transmit these data. Instead, the caller (regardless of age, medical
10		for granted. A 911 call from a VoIP subscriber today, in contrast, does not
9		subscriber, capabilities that consumers once thought extraordinary and now take
8		including the location and telephone number of the caller, the billing name of the
7		call from a home or business telephone automatically transmits information
6		Public Safety Answering Point (PSAP). Today, with traditional E911 service, a
5		may also be overshadowed by customer expectations for call delivery to the E911
4		service over VoIP, however important from a customer acceptance perspective,
3		The cost, convenience, and quality issues associated with delivery of voice
2		ILECs and equipment manufacturers alike. ²⁸⁹
1		questions as to the quality of voice transmission using VoIP have been raised by

18 IMPAIRMENT ANALYSIS IF THE TRIGGERS ARE NOT MET?

²⁸⁹ See "Packet Voice Spurs Debate on Fate of Circuit Switches" at <u>www.eetimes.com/story/OEG20011130S0072</u>; "Defining the Space: VoIP, IP Telephony and Convergence" found at www.avaya.com.

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1	A.	The Commission must consider the operational and economic barriers to entry
2		that exist in any challenged market. For Washington, those facts are discussed in
3		the testimony of Robert Falcone, Lee Selwyn and William Lehr filed by AT&T in
4		this case.
5	Q.	WHAT IS THE RELATIONSHIP BETWEEN THE TRIGGER ANALYSIS
6		AND THE FULL IMPAIRMENT ANALYSIS?
7	A.	From the perspective of end user consumers, it is critical that all of the
8		Commission's decisions regarding impairment, including its decisions on the
9		triggers, ensure that competitive forces are available to discipline the incumbents'
10		market power in the local markets they now dominate. Thus, as the FCC noted, a
11		"key consideration" with respect to the self-provisioning trigger is whether the
12		self-providers used in the trigger analysis "are <i>currently</i> offering and able to
13		provide service, and <i>are likely to continue to do so</i> ." ²⁹⁰ Similarly, under the
14		wholesale trigger, carriers that are used to apply that trigger must be substantial
15		enough to "provide competitive pressures on pricing and terms "291 Thus,
16		before the Commission determines that a trigger is met, it must require firm proof
17		that the defined area already supports multiple switch-based carriers that provide
18		meaningful competitive alternatives for mass market customers, and it must be
19		confident that that market will continue to support meaningful facilities-based
20		competition in the future if access to UNE-P were eliminated.

²⁹⁰ TRO, ¶ 500.

 $^{^{291}}$ Id. ¶ 505.

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1	In its section 271 proceeding, Qwest was required to demonstrate that it had met
2	the Track A and Public Interest Requirements as part of demonstrating that its
3	local service market was "irreversibly open" to competition. Qwest Witness
4	David Teitzel relied heavily on the availability of UNE-P as support for its claim
5	that the local market in Washington was "irreversibly open." ²⁹² Mr. Teitzel
6	clearly indicated that his definition of a facilities based provider included use of
7	Qwest's unbundled network elements. ²⁹³ Now that it has achieved its section 271
8	objectives, Qwest seeks to eliminate that very same competition that it used to
9	argue that its markets were irreversibly open to competition.
10	Indeed, as mentioned previously, Qwest relies even today on the existence and
11	proliferation of UNE-P to further its own agenda to seek competitive
12	classification of its business services in one docket here in Washington, all the
13	while seeking to eliminate UNE-P as an avenue for market entry in this docket. ²⁹⁴
14	This is not a matter to treat lightly. The Commission cannot ignore the fact that
15	an ill-founded decision on impairment will likely result in drastically reduced
16	choices for local consumers, as well as a reversal of the prior determination that

²⁹² Before the Washington Utilities and Transportation Commission, *In the Matter of the Investigation Into U S WEST Communications, Inc.'s Compliance With Section 271 of the Telecommunications Act of 1996*, Docket No. UT-003022, Direct Testimony of David L. Teitzel, May 16, 2001 ("Teitzel Direct"). It is noteworthy in this context that the FCC determined that UNE-P competition was "facilities based" for purposes of its section 271 reviews. *In the Matter of Joint Application by SBC Communications Inc., Southwestern Bell Telephone Company, and Southwestern Bell Communications Services, Inc. d/b/a Southwestern Bell Long Distance for Provision of In-Region, InterLATA Services in Kansas and Oklahoma,* CC Docket No. 00-217, FCC 01-29, Released: January 22, 2001, ¶ 41.

²⁹⁴ In the Matter of the petition of Qwest Corp. for competitive classification of basic business exchange telecommunications services, Docket No. UT-030614, supra.

1	the local market is irreversibly open to competition. Therefore, unless and until
2	the ILEC adduces clear evidence establishing that consumers will not be
3	competitively harmed if the Commission eliminates cost-based access to UNE-P,
4	the Commission should not conclude that CLECs can economically serve the
5	mass market without access to unbundled switching.
6	Critically in this regard, it does not matter whether the evidence supporting the
7	Commission's decision is the "shorthand" data that are reviewed in a trigger
8	analysis or the more detailed data that will be presented in a full review of
9	economic and operational impairment. In either case, the consumer effect is the
10	same competitive access to UNE-P will be lost.
11	As a result, the outcome of a trigger analysis cannot be contrary to the result that
12	would follow from a full impairment analysis. Indeed, if the Commission
13	eliminated access to unbundled switching and UNE-P under a trigger test even
14	though CLECs remain impaired under the FCC's general impairment standard,
15	the result would be economically irrational, and thus inconsistent with the TRO's
16	requirements. ²⁹⁵
17	Finally, it is important to realize that the ILECs cannot be harmed if the
18	Commission applies appropriate rational criteria to its trigger analysis, because if
19	a trigger is not met the ILECs still have the opportunity to demonstrate that
20	CLECs could reasonably use their own switching to serve mass-market customers

²⁹⁵ TRO, ¶ 78 ("any reasonable application of the impairment standard and unbundling requirements should be economically rational"). See also id., ¶¶ 55-56, 69.

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1		under the full-scale impairment test. Under those circumstances, the Commission
2		cannot treat the trigger analysis as a simple "counting" exercise. Instead, it must
3		use its experience and judgment to create a rational set of criteria for reviewing
4		the "trigger" data, so that it can be assured that its decision based on those limited
5		data will yield the same result as a full economic and operational impairment
6		analysis.
7		Plainly put, the Commission should not conclude that the triggers have been met
8		unless it is confident that competitive providers can economically thrive using
9		UNE-L and provide competitively meaningful service to "the mass market"
10		within the geographic market areas it establishes within Washington.
11	Q.	IS MERE EVIDENCE OF FACILITIES DEPLOYMENT ALONE
12		SUFFICIENT UNDER THE TRIENNIAL REVIEW ORDER TO
13		DETERMINE THAT THE TRIGGERS HAVE BEEN MET?
14	A.	No. As noted above, the FCC expressly rejected arguments by the ILECs that
15		"evidence of facilities deployment by competitive CLECs" must or even can be
16		treated as "conclusive or presumptive of a particular outcome without additional
17		<i>information or analysis</i> ." ²⁹⁶ Thus, although evidence of actual facility
18		deployment by CLECs "may indicate a lack of impairment," the FCC expressly
19		disagreed with ILEC assertions that such evidence should be "dispositive of [or

²⁹⁶ *TRO*, \P 94 (emphasis added). The FCC expressly declined to presume, for example, that the facilities deployment levels sufficient to support a grant of pricing flexibility in a market would require a finding of lack of impairment. *Id.* \P 104.

1		create] a rebuttable presumption of no impairment." ²⁹⁷ Instead, the FCC
2		acknowledged that "[i]n deciding what weight to give this evidence" and thus
3		whether it is probative of a claim of non-impairment a Commission must
4		consider factors such as "how extensively carriers have been able to deploy such
5		alternatives, to serve what extent of the market, and how mature and stable that
6		market is."298 Moreover, the FCC found that evidence that competitors using
7		their own switches for other purposes have not converted them to serve mass
8		market customers bolsters its findings that significant barriers make use of CLEC
9		switching to serve such customers uneconomic. ²⁹⁹ Thus, any notion that the
10		trigger analysis is simply a matter of counting switches, particularly those
11		switches used to serve the enterprise market, must be soundly rejected.
12		E. CONCLUSION
13	Q.	WHAT ARE YOUR CONCLUSIONS WITH RESPECT TO THE
14		TRIGGER ANALYSIS?
15	A.	There are several. First and foremost, the trigger analysis is intended to determine
16		whether and to what extent there are actual and effective alternatives to the
17		switching capability of the RBOC, in this case Qwest. This does not mean merely
18		counting switches. Instead, it requires that the Commission familiarize itself with
19		the facts that give rise to CLECs' economic and operational impairment in

²⁹⁷ Id. ¶ 94.
²⁹⁸ Id. (emphasis added)
²⁹⁹ Id. n. 1365 & n. 1371.
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1	Washington, and exercise appropriate discretion in applying the TRO's guidelines
2	to develop the quantitative and qualitative criteria necessary to determine which
3	alternative switching sources should be considered in the trigger analysis. It also
4	means performing a granular analysis, to look at "actual deployment," i.e., the
5	places and customers that a CLEC currently serves. as opposed to mere
6	potentiality. That actual deployment must include service to both residential and
7	business customers, and not the mere presence of a switch serving one class of
8	customers but not the other. In addition, the qualified provider (whether a self-
9	provider or a wholesaler) must be actually serving the entire geographic at issue,
10	and not just a subset of that market. And lastly in this regard, the Commission
11	must assure itself that the trigger analysis has produced a rational and lasting pro-
12	competitive result. The triggers will be met only where the defined area already
13	supports multiple, active competitors using non-ILEC switching to serve the mass
14	market, under circumstances that can be expected to continue for the indefinite
15	future, without losing the competitive gains made to date. A fundamental
16	concern, and potential danger, is that the elimination of unbundled mass market
17	switching will reverse the progress of competition, and force CLECs to exit the
18	market.
19	VII. OVERALL CONCLUSION.

20 Q.

VII. OVERALL CONCLUSION.

WHAT ARE YOUR OVERALL CONCLUSIONS?

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1	A.	During the course of my testimony I have first tried to provide a brief synopsis of
2		the TRO, and essentially give the Commission a roadmap to follow in conducting
3		these proceedings. I have also provided an overview of the Commission's critical
4		role in the process of examining whether-as the FCC has found nationally-
5		CLECs are impaired in their attempts to enter the market here in Washington,
6		without the continued availability of ILEC-provided mass market switching,
7		priced at TELRIC rates. I have explained that such impairment is determined by
8		means of a two-step process, <i>i.e.</i> , an actual usage test (called a trigger analysis)
9		and a potential deployment test. Both of these tests, however, are ultimately
10		intended to answer the exact same question: whether mass market customers in
11		the defined markets will be able to obtain competitive services from multiple
12		suppliers.
13		Secondly, I have described the "unbundled network element platform" (or "UNE-
14		P") in terms of a) its role in fostering and developing local exchange competition,
15		b) the tangible economic benefits which it brings to consumers, and c) its
16		promotion of investment by CLECs and ILECs alike. I conclude that the
17		capability of UNE-P to bring competition quickly to a wide-spread area is
18		absolutely unparalleled among the available avenues for local market entry.
19		There is, quite simply, no other method an entrant can use which will allow entry
20		in a broad geographic market quickly and effectively. In addition, the benefits to
21		consumers resulting from UNE-P entry are clear, and have been independently

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1	documented: an increased number of choices among providers, a broader
2	selection of offers from each provider, competitive response from the ILECs, and,
3	most importantly, falling prices. In short, UNE-P provides real competition and
4	real consumer benefits. Moreover, contrary to the claims of the ILECs, the
5	available data demonstrates that UNE-P stimulates investment by the Bells and
6	new entrants alike. In fact, the great irony of the ILECs' argument against UNE-P
7	is that they have absolutely no economic reason to promote more facilities-based
8	competition to their monopolies. They fully understand that UNE-P is a stepping
9	stone to investment in infrastructure, and they hope to remove it, and replace it
10	with a stumbling block.
11	Thirdly, I have examined the notion of defining a "geographic market" for
12	purposes of this impairment analysis. I conclude that it is useful to think of the
13	geographic market as an "impairment evaluation zone," because that is the
14	singular purpose to which they will be put. The factors to be used in establishing
15	these zones is expressly set out in the TRO, and include, inter alia, the locations
16	of customers actually being served (if any) by competitors, the variation in factors
17	affecting competitors' ability to serve each group of customers, and competitors'
18	ability to target and serve specific markets economically and efficiently using
19	currently available technologies. I also conclude that establishing these zones will
20	be a dynamic and fact-intensive process, in which it will be necessary for the
21	Commission to obtain solid data, and not rely on a one-size-fits-all approach.

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1	While the FCC has said that a geographic market should be less than the entire
2	state in size, it is clear that one of the goals of the Act is to encourage broad
3	competition throughout the entire state. I conclude in my testimony that, for
4	many reasons, it makes economic sense to view the market more broadly, and as a
5	larger area, rather than a more confined area. In this context, the Commission
6	might want to consider using LATA boundaries or Qwest's service area within
7	the state as the defining characteristic of these impairment evaluation zones.
8	Whatever geographic area the Commission ultimately settles on for its
9	impairment analysis, it should not lose sight of the most important fact here: only
10	UNE-P works at a scale and scope that is necessary to support mass market
11	competition throughout Washington.
12	Fourth, I have provided an analysis to aid the Commission in determining the
13	crossover point at which it makes more sense to utilize a DS1 application instead
14	of "POTS" to serve a multi-line customer. I conclude there, for numerous
15	reasons, that the crossover point should be set at twelve (12) lines, meaning that
16	when a customer is served by twelve or more lines, a CLEC should be
17	economically indifferent between UNE-P or DS1 lines to serve that location.
18	Lastly, I have provided a fairly thorough examination of the so-called trigger
19	analysis found in the TRO, where I have reached several important conclusions.
20	Most importantly, the trigger analysis is intended to determine whether and to
21	what extent there are actual and effective alternatives to the switching capability

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15	Q.	DOES THIS CONCLUDE YOUR TESTIMONY?
14		to exit the market.
13		mass market switching will reverse the progress of competition, and force CLECs
12		fundamental concern, and potential danger, is that the elimination of unbundled
11		analysis has produced a rational and lasting pro-competitive result. A
10		And lastly in this regard, the Commission must assure itself that the trigger
9		serving the <i>entire</i> geographic area at issue, and not just a subset of that market.
8		qualified provider (whether a self-provider or a wholesaler) must be actually
7		must include service to both residential and business customers. In addition, the
6		deployment," <i>i.e.</i> , the places and customers that a CLEC <i>currently</i> serves. which
5		analysis. Next, I conclude that the Commission should look at "actual
4		determine which alternative switching sources should be considered in the trigger
3		Washington, and the application of quantitative and qualitative criteria to
2		but instead requires a careful analysis of economic and operational impairment in
1		of the RBOC, in this case Qwest. This does not mean merely counting switches,

16 A. Yes, it does.