## BEFORE THE KENTUCKY PUBLIC SERVICE COMMISSION

In the Matter of:		
REVIEW OF FEDERAL COMMUNICATIONS	)	
COMMISSION'S TRIENNIAL REVIEW ORDER	)	CASE NO.
REGARDING UNBUNDLING REQUIREMENTS	)	2003-00379
FOR INDIVIDUAL NETWORK ELEMENTS	)	

#### REBUTTAL TESTIMONY OF DR. MARK T. BRYANT

On Behalf Of

### MCIMETRO ACCESS TRANSMISSION SERVICES, LLC

**AND** 

MCI WORLDCOM COMMUNICATIONS, INC.

March 31, 2004

PUBLIC VERSION -- REDACTED CONFIDENTIAL DATA IDENTIFIED AS

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1	Q.	PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.
2	A.	My name is Mark T. Bryant, and my business address is 4209 Park
3		Hollow Court, Austin, Texas.
4	Q.	ARE YOU THE SAME MARK T. BRYANT WHO PREVIOUSLY
5		FILED DIRECT TESTIMONY IN THIS PROCEEDING?
6	A.	Yes, I am.
7	Q.	WHAT IS THE PURPOSE OF YOUR REBUTTAL TESTIMONY?
8	A.	The purpose of my rebuttal testimony is to respond to the direct testimony
9		of BellSouth witnesses Pleatsikas, Tipton, Stegeman, and Aron.

- 10 I. REBUTTAL OF THE TESTIMONY OF DR. PLEATSIKAS
- 11 Q. DO YOU AGREE WITH THE ROLE OF MARKET DEFINITION
  12 IN DETERMINING THE DEGREE OF ACTUAL COMPETITION
  13 FOR LOCAL EXCHANGE SERVICE (THE "TRIGGERS"
  14 ANALYSIS) AND IN DETERMINING THE POTENTIAL FOR
- 15 CLEC SWITCH DEPLOYMENT IN KENTUCKY AS OUTLINED
- 16 **BY DR. PLEATSIKAS?**
- 17 A. In general, yes. In discussing the role of market definition, Dr. Pleatsikas
  18 correctly notes that the market definition should permit a granular analysis
  19 and should reflect cost or other differences that might affect a competitor's
  20 ability to provide service and that the market should be defined in such a

1		way as to reveal differences in markets that would result in differing
2		findings of impairment. Dr. Pleatsikas also correctly identifies some of the
3		cost differences that have an impact on a CLEC's decision to offer UNE-L
4		based local exchange service.
5	Q.	DO YOU AGREE WITH DR. PLEATSIKAS' CONCLUSION THAT
6		A MARKET DEFINITION OF UNE RATE ZONES DIVIDED BY
7		COMPONENT ECONOMIC AREAS ADEQUATELY CAPTURES
8		THE FACTORS THAT AFFECT A CLEC'S DECISION TO OFFER
9		UNE-L BASED SERVICE?
10	A.	No, I do not. Among the factors cited by Dr. Pleatsikas to support his
11		proposed market definition are the differences in rates for UNE loops and
12		the cost of transport from customers' locations to the CLEC's switch.
13		While Dr. Pleatsikas' market definition captures the differences in
14		recurring rates for UNE loops and other ILEC rate elements, it fails to
15		adequately capture the effect that the cost of transport and the costs
16		imposed by other ILEC charges may have on a CLEC's decision to enter
17		the market as a UNE-L based local service provider.
18	Q.	IN WHAT WAY DOES DR. PLEATSIKAS' MARKET
19		DEFINITION FAIL TO ADEQUATELY ADDRESS THE EFFECT
20		OF THE COST OF TRANSPORT?
21	A.	The rates charged by BellSouth for transport rate elements vary by
22		distance as well as by rate zone. As a result, providing service at a wire

center that is located further from a CLEC's switch is more costly to the CLEC than serving a wire center that is close to the CLEC's switch.

Failure to recognize this cost differential in effect averages transport costs across all wire centers in BellSouth's proposed markets. While the market as a whole might be profitable under Dr. Pleatsikas' market definition, the potential exists that some wire centers within the proposed market would be unprofitable to serve. If a market as broad as a CEA is defined, differences in profitability in wire centers will be obscured, and the impairment analysis will thus fail to capture any areas where the CLECs cannot profitably provide service.

#### Q. WHAT OTHER CLEC COSTS VARY AMONG WIRE CENTERS?

A. There are a number of cost factors that vary among wire centers. These include the number of addressable lines in the wire center, the number of lines for which the CLEC is capable of offering DSL services, the number of lines in the wire center served by digital loop carrier technology, the relative number of business and residential customers in the wire center, and the demographics of customers served from the wire center.

## Q. HOW DOES THE NUMBER OF ADDRESSABLE LINES IN THE WIRE CENTER AFFECT THE CLEC'S COSTS?

A. The number of addressable lines in the wire center affects the CLEC's ability to recover the substantial fixed cost associated with establishing a collocation in the wire center. Some of these costs are in the form of ILEC

nonrecurring charges for the establishment of the collocation, and other are in the form of CLEC capital expenditures for equipment to be located in the collocation space, and the cost of installing and configuring the equipment. The fewer the number of lines that are served from a particular wire center, the fewer the number of potential CLEC customers over which these costs may be spread, and thus the higher the CLEC's percustomer cost will be.

### Q. HOW DOES THE NUMBER OF LINES SERVED BY DIGITAL

#### LOOP CARRIER AFFECT THE CLEC'S PROFITABILITY?

The use of digital loop carrier technology affects CLEC profitability in two ways. First, under the terms of the FCC's Triennial Review Order, the ILEC is not obligated to provide unbundled access to the packet switching capability of hybrid fiber-copper loops. This provision of the order effectively precludes the CLEC from offering DSL services to those customers whose loops are provisioned using DLC technology. This reduces the revenue potentially available to the CLEC in the wire center to recover its fixed costs. It also may reduce the market share that the CLEC is capable of achieving, particularly among the higher-spending residential customers and business customers, who are more likely to demand broadband data services.

Second, the use of digital loop carrier technology, and particularly next-generation DLC systems, complicates the process of unbundling

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1		loops for use by the CLEC. As explained in the testimony of Mr. Webber,
2		the methods proposed thus far for unbundling of loops provided over
3		digital loop carrier systems either are not yet tested, or result in significant
4		quality of service or cost issues for CLECs.
5	Q.	IN WHAT WAYS DO THE PROPORTION OF BUSINESS AND
6		RESIDENCE CUSTOMERS AND THE DEMOGRAPHIC
7		CHARACTERISTICS OF CUSTOMERS IN THE WIRE CENTER
8		AFFECT CLEC PROFITABILITY?
9	A.	Each of these factors affects the revenue that is potentially available to the
10		CLEC in each wire center. Because business customers generally produce
11		more revenue than residential customers under current pricing practices, a
12		larger proportion of business customers means a larger potential revenue
13		stream for the CLEC. Likewise, the demographic characteristics of the
14		wire center may affect the potential revenue available to the CLEC. A
15		wire center with a large proportion of affluent customers, or a wire center
16		with a large proportion of younger, more tech-savvy customers will likely
17		generate more revenue per customer than wire centers without these
18		characteristics.
19	Q.	IS THERE EVIDENCE IN THE TRO THAT THE FCC

CONSIDERED WIRE CENTERS TO BE AN APPROPRIATE UNIT

**OF ANALYSIS?** 

20

1	A.	Yes, in paragraph 484 of the Order, the FCC reviewed the evidence that
2		had been provided by parties to the TRO proceeding on CLEC
3		profitability:
4 5 6 7 8 9		we observe that all of the studies mentioned – including the BOC studies – suggest that it would be uneconomic for a competing carrier to serve customers in smaller wire centers. All the studies found that in such wire centers, entry would be much more expensive for the CLEC than for the incumbent, or simply would be uneconomic.
10		
11	Q.	WAS ONE OF THE STUDIES REFERENCED BY THE FCC
12		PRESENTED BY BELLSOUTH?
13	A.	Yes. In fact, the FCC cited a study presented by BellSouth in the same
14		paragraph that purportedly calculated the profitability of CLECs in wire
15		centers of various sizes:
16 17 18		BellSouth found that for wire centers of under 5,000 lines, a competitor would likely experience a net loss of \$1.93 per line assuming BellSouth's average retail local revenues.
19		BellSouth itself apparently considered wire center size to be a significant
20		determinant of CLEC profitability, as is evidenced by its presentation of
21		profitability estimate for various categories of wire center size.
22	Q.	ARE ANY OF THE WIRE CENTERS IN THE BELLSOUTH-
23		DEFINED MARKETS FOR WHICH BELLSOUTH CLAIMS
24		THAT CLECs ARE NOT IMPAIRED SMALLER THAN 5,000
25		LINES?

1	A.	Yes. If the Commission were to accept BellSouth's proposed market
2		definition and non-impairment claims, five wire centers of less than 5,000
3		lines — 13% of all wire centers in the markets found non-impaired by
4		BellSouth — would be found to be not impaired. These are wire centers
5		that, according to BellSouth's own earlier analysis, cannot be profitably
6		served by CLECs.

Clearly, BellSouth's proposed market definition obscures important factors that influence a CLEC's decision to provide service. If the Commission were to adopt the market definition proposed by Dr. Pleatsikas, there is a risk that customers in smaller wire centers could be left without competitive alternatives.

# 12 Q. DR. PLEATSIKAS HAS ARGUED THAT A WIRE CENTER 13 MARKET DEFINITION DOES NOT CAPTURE THE 14 ECONOMIES OF SCALE THAT PERTAIN TO CERTAIN COSTS 15 INCURRED BY THE CLEC IN PROVIDING SERVICE. DO YOU 16 AGREE?

Yes, I agree that certain costs that the CLEC will incur in providing local exchange service using its own switching facilities are not specific to the wire center. Examples would include the fixed cost purchasing and installing switching and signaling facilities, and the development of billing and provisioning systems. The question, however, is whether consideration of the economies of scale that pertain to these cost factors

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should rule out consideration of the cost differentials that exist between wire centers. I believe that both wire center specific costs and costs that are incurred over a broader area are important considerations for a CLEC considering offering local exchange service using its own switching facilities. However, because the costs of switching, and billing and provisioning systems are incurred on behalf of a relatively much larger pool of customers over which the costs may be spread, they are a less important factor in the entry decision than wire center specific fixed costs, which must be spread over a relatively much smaller number of customers

To illustrate this point, I have attached a chart as Exhibit MTB-4. This chart illustrates the investment per customer for a local exchange switch, with the assumption that the fixed investment for the switch is \$1,000,000, and the per customer investment is \$100. As the chart clearly shows, the economies of scale in the switch are achieved fairly rapidly. By the time the CLEC is serving a few thousand customers, the rate of decline in the per-customer investment has slowed dramatically, and adding additional customers results in a miniscule decrease in the per customer investment.

- 20 II. REBUTTAL OF THE DIRECT TESTIMONY OF MS. TIPTON (TRIGGERS)
- Q. MS. TIPTON STATED IN HER DIRECT TESTIMONY THAT THE
   "TRIGGERS" ANALYSIS IS A SIMPLE COUNTING EXERCISE –

1		ONCE THE COMMISSION HAS DETERMINED THAT THREE
2		CARRIERS ARE PROVIDING LOCAL SERVICE TO MASS
3		MARKET CUSTOMERS, IT NEED LOOK NO FURTHER. DO
4		YOU AGREE?
5	A.	Only in part. To be sure, once the Commission has determined which sort
6		of carriers are suitable for inclusion in the counting exercise, the counting
7		itself is a simple process. The more challenging aspect of the decision that
8		the Commission faces is in determining which carriers may appropriately
9		be counted. The FCC has identified a number of factors that must be
10		considered in this determination. These include:
11		(1) Corporate ownership;
12		(2) Active and continuing market participation;
13		(3) Intermodal competition; and
14		(4) Scale and scope of market participation.
15		I discuss each of these rules, and other pertinent considerations, below. To
16		aid the Commission in reviewing evidence that purports to show that
17		either the retail or wholesale trigger has been met in a particular market, I
18		have also prepared a flowchart that summarizes the requisite analysis. This
19		flowchart is attached as Exhibit MTB-5 to my testimony.

## Q. WHAT ARE THE FCC'S RULES WITH RESPECT TO CORPORATE OWNERSHIP?

- 3 A. The FCC has imposed two separate restrictions on corporate ownership. 4 First, a carrier can only count toward the retail or wholesale trigger in a 5 particular market if that carrier is unaffiliated with the incumbent. 6 *Triennial Review Order*, ¶ 499. Second, to prevent "gaming," carriers 7 affiliated with one another, but not the incumbent, only count as a single 8 carrier toward satisfying the pertinent trigger. *Id.* (In both instances, the 9 FCC relied on a definition of affiliation found in Section 3 of the Act (47 10 U.S.C. § 153(1)). *Id.*, n. 1550). These two requirements appear as the 11 second and third items on the flowchart in Exhibit MTB-5.
- 12 Q. WHAT ARE THE FCC'S RULES WITH RESPECT TO A
  13 POTENTIAL TRIGGERING CARRIER'S ACTIVE AND
  14 CONTINUING MARKET PARTICIPATION?
- 15 A. The FCC stresses that potential triggering carriers must be "actively 16 providing voice service to mass market customers in the market." *Id.*, ¶ 17 499. Moreover, the state commission must verify that the competitors in 18 question have not, for example, filed a notice to terminate service in that 19 market (*Id.*, n. 1556) or provided other evidence demonstrating that they 20 no longer intend to be an active participant in that market. These 21 requirements are reflected in the fourth item in the flowchart in Exhibit 22 MTB-5.

The clear intent of these rules is to ensure that any company counted toward a trigger is an active and continuing participant in the relevant market. To give these rules economic meaning, the Commission should require evidence that any company counted toward a trigger is actively soliciting new customers and has, in fact, added new customers *in that market* within the recent past (*e.g.*, the most recent month for which data are available).

#### Q. WHAT ARE THE FCC'S RULES WITH RESPECT TO

#### **INTERMODAL COMPETITION?**

A.

The FCC requires states to consider whether intermodal alternatives are comparable in "cost, quality and maturity" to the incumbent's switched mass-market voice services before counting such alternatives toward the trigger in any market. *Id.*, n. 1549. *See also* ¶ 97. Based on these criteria, the FCC specifically indicated that it did not expect states to count CMRS carriers toward either trigger. *Id.*, n. 1549. The FCC defines CMRS carriers as "any mobile service, as defined in section 3 of the Act, as amended, provided for profit and making interconnection services available to the public." *Id.*, n. 164, citing 47 U.S.C. § 332(d)(1). This definition includes, but is not limited to, traditional cellular carriers. Similarly, the FCC indicated that fixed wireless has "not proven to be viable or deployable on a mass market scale," implying that fixed wireless services do not meet the "comparable in cost, quality and maturity" standard for inclusion in the trigger analysis. *Id.*. ¶ 310. The FCC did,

however, leave open the option of counting carriers that use packet switches or soft switches to provide voice services to mass-market customers. *Id.*, n. 1549.

To give economic meaning to these rules, I recommend that the Commission place the burden of proof on the ILECs to demonstrate that any intermodal alternative it proposes to count toward the triggers satisfies the "comparable in cost, quality and maturity" standard identified in footnote 1549 to the *Triennial Review Order*. I have therefore included as the fifth item in the Exhibit MTB-5 flowchart an evaluation of the incumbent's showing as to the cost, quality and maturity of any intermodal providers proffered as potential triggering companies.

## Q. SHOULD CABLE TELEPHONY PROVIDERS BE CONSIDERED POTENTIAL MASS-MARKET TRIGGERING COMPANIES?

No. As the FCC acknowledged, cable telephony fails to serve the "crucial function" of affording access to the incumbent's loops, (Id., ¶ 439) and therefore "provides no evidence that competitors have successfully self-deployed switches as a means to access the incumbents' local loops, and have overcome the difficulties inherent in the hot cut process." Id., ¶ 440. Cable telephony's strategy is to "bypass the incumbent LECs' networks entirely." Id. This strategy is only available to a single firm in any market because cable TV companies, due to "unique economic circumstances of first-mover advantages and scope economies, have access to customers that other competitive carriers lack." Id., ¶ 310. As a result, neither cable

telephony nor CMRS "can be used as a means of accessing the incumbents' wireline voice-grade local loops. .... Accordingly, neither technology provides probative evidence of an entrant's ability to access the incumbent LEC's wireline voice-grade local loop and thereby self-deploy local circuit switches." *Id.*, ¶ 446. Any competitive facilities that allow access to some customer locations but not others clearly cannot be regarded as probative evidence of no impairment concerning those customer locations that cannot be reached by the competitive facilities. Cable telephony is at most an alternative to the ILEC's local voice service for the specific customer locations served via the cable company's facilities, which typically do not reach all of the ILEC's mass-market customer locations. (For example, cable facilities frequently do not serve the central business districts in which many mass-market small business customers may be located. *Id.*, n. 1349.)

For similar reasons, the FCC determined that the availability of cable telephony does not eliminate impairment with respect to the ILEC's voice-grade loop facilities. *Id.*, ¶¶ 228, 229 and 245. Because cable telephony offers an alternative to the ILEC's mass-market switching facilities only where it also offers an alternative to the ILEC's loop facilities, it logically follows that cable telephony does not cure impairment with respect to mass-market switching, either.

In addition, cable telephony does not unambiguously fulfill the "cost, quality and maturity" criteria established by the FCC. Cable

telephony services (particularly the recent variants provided using Voice over Internet Protocol, or VoIP, technology) are relatively new; it is not yet clear whether most consumers perceive such services to be comparable to local telephone service, especially with respect to reliability issues such as E-911 and backup power in emergencies. Thus, I believe that a reasoned analysis disqualifies cable telephony from being considered as a "close enough" substitute for the ILEC's local voice services to be included in the product market for the mass-market switching impairment analysis.

## Q. WHAT SCALE AND SCOPE OF MARKET PARTICIPATION SHOULD BE REQUIRED BEFORE A CARRIER IS DEEMED A TRIGGER?

Competitive providers should be capable of providing service to substantially all customers in a defined market. This concept is implicit in virtually the entirety of the *Triennial Review Order*, in its focus on ensuring that customers have access to alternative providers of local exchange service. Indeed, the Commission's focus on the "mass market" itself is nonsensical under any interpretation of the *Order* that would find non-impairment due to a very limited availability of competitive alternatives. Service to a few customers in a small portion of a geographic market does not reflect a carrier's ability to actively serve the "mass market." A key reason the FCC looked to actual marketplace evidence is that such evidence shows "whether new entrants, *as a practical matter*,

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1	have surmounted barriers to entry in the relevant market." $TRO \P 93$
2	(emphasis added and deleted).
3	
4	In defining the evidence that it will consider in assessing the
5	availability of competitive alternatives, the FCC stated in ¶ 94 of the
6	Triennial Review Order:
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	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 without additional information or analysis. For example, if the marketplace evidence shows that new entrants have deployed a certain type of facility, we will consider the facts as evidence that the barriers to entry in that market for that element are surmountable. In deciding what weight to give this evidence, we will consider how extensively carriers have been able to deploy such alternatives, to serve what extent of the market, and how mature and stable that market is. Thus, while we agree that such evidence may indicate a lack of impairment, we disagree with commenters that argue that such evidence is dispositive or creates a rebuttable presumption of no impairment.  (Emphasis added.) Thus, the FCC clearly is concerned that any evidence
25	of facilities deployment be assessed in light of the extent of the market
26	served and indicates that limited deployment is insufficient to support a
27	finding of non-impairment. Thus, in eliminating consideration of CMRS
28	as a triggering alternative, the FCC cited as one factor the lack of ubiquity
29	of that service:
30 31 32 33 34	For example, we note that CMRS does not yet equal traditional incumbent LEC services in its quality, its ability to handle data traffic, <i>its ubiquity</i> , and its ability to provide broadband services to the mass market.

27		REQUIREMENT THAT A POTENTIAL TRIGGER COMPANY BE
26	Q.	HOW SHOULD THE COMMISSION IMPLEMENT THE
25		consideration.
24		of competitors to provide service within a market is an important
23		are not being served, then it must also believe that the extent of the ability
22		actively being served should be segregated from portions that cannot or
21		TRO ¶499, n.1552. If the FCC believes that portions of a market that are
16 17 18 19 20		In circumstances where switch providers (or the resellers that rely on them) are identified as currently serving, or capable of serving, only part of the market, the state commission may choose to consider defining that portion of the market as a separate market for purposes of its analysis.
15		state:
14		language that does not distinguish between retail and wholesale carriers, to
13		TRO ¶ 499. In a footnote to this paragraph, the FCC went further, in
6 7 8 9 10 11 12		Moreover, the identified competitive switch providers should be actively providing voice service to mass market customers in the market. Identified carriers providing <i>wholesale</i> service should be actively providing voice service used to serve the mass market and be operationally ready and willing to provide wholesale service to all competitive providers in the designated market.
5		retail and wholesale switch providers, stated that:
4		Finally, the FCC, in establishing requirements for consideration of
3		not have eliminated CMRS on the basis of its lack of ubiquity.
2		few customers within a market were not a concern, the Commission would
1		TRO ¶ 499, n.1549 (emphasis added). If the ability to serve more than a

1	CAPABLE OF PROVIDING SERVICE TO SUBSTANTIALLY ALL

#### **CUSTOMERS IN A DEFINED MARKET?**

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3 The Commission can achieve the same effect either by narrowing the Α. 4 market definition in such a way that the potential triggering companies do 5 in fact offer services to all, or virtually all, customers within the defined 6 market, or by declining to count companies that do not offer services to 7 all, or virtually all, mass-market customers within the geographic market 8 that the Commission adopts. Either approach accomplishes the essential 9 economic purpose of applying triggers in a manner that ensures that all, or 10 virtually all, customers within a given market have significant alternatives.

#### 11 Q. WHY IS IT CONSISTENT WITH PUBLIC POLICY THAT

- 12 TRIGGERS SHOULD BE APPLIED IN A WAY THAT ENSURES
- 13 ALL, OR VIRTUALLY ALL, CUSTOMERS WITHIN A GIVEN
- 14 MARKET HAVE SIGNIFICANT ALTERNATIVES?
- 15 First and foremost, such an approach is consistent with the pro-A. 16 competitive goals of the Act and this Commission. To date, UNE-P has 17 proven to be the most successful and widespread vehicle for providing 18 mass-market customers with competitive alternatives to the incumbents' 19 retail local exchange services. By its very nature, UNE-P allows 20 competitors to offer alternatives to each and every customer that the ILEC 21 serves. Eliminating access to unbundled switching is inherently anti-22 consumer unless the Commission can be very sure that all of the

1	customers who can be served via UNE-P can also be served through some
2	alternative form of competitive entry.

#### Q. IS IT YOUR TESTIMONY THAT THE ILEC MUST

4 DEMONSTRATE THAT POTENTIAL TRIGGERING

- 5 COMPANIES ARE CURRENTLY OFFERING RETAIL LOCAL
- 6 EXCHANGE SERVICES TO (OR WHOLESALE SERVICES THAT
- 7 ALLOW POTENTIAL RESELLERS TO REACH) EVERY SINGLE
- 8 MASS-MARKET CUSTOMER IN A GIVEN WIRE CENTER?
- 9 A. No. The Commission should, however, require evidence that: (1) each 10 company counted toward the retail trigger has a demonstrated capability of 11 holding itself out to provide retail local exchange service to all, or 12 virtually all, mass-market customers within that wire center; and (2) the 13 volumes at which the potential triggering company is presently providing 14 service demonstrate that it has overcome the hot cut barrier to entry that is 15 the basis for the national finding of impairment and all of the other 16 economic and operational barriers to entry that the FCC identified as 17 appropriate topics for consideration in a potential deployment analysis. 18 This means that the company in question must have demonstrated, by the 19 sheer scale and scope of its participation in the market, that it has 20 overcome the operational and technological issues associated with, e.g., 21 UNE-L, OSS, collocation, transport and EELs necessary for mass-market 22 entry. If that is not unambiguously clear from the nature of the triggering 23 company's operations, then a potential deployment analysis would be

1		necessary to justify a finding of no impairment and no such finding should
2		be made on the basis of the existence of the alleged trigger company in the
3		relevant market. I have included these two evidentiary requirements as the
4		sixth and seventh, respectively, on the flowchart in Exhibit MTB-5.
5	Q.	ARE THERE BROAD CATEGORIES OF POTENTIAL
6		TRIGGERING COMPANIES THAT WOULD FAIL TO MEET
7		YOUR PROPOSED STANDARD OF HAVING A
8		DEMONSTRATED CAPABILITY OF HOLDING ITSELF OUT TO
9		PROVIDE RETAIL LOCAL EXCHANGE SERVICE TO ALL, OR
10		VIRTUALLY ALL, MASS-MARKET CUSTOMERS WITH THE
11		WIRE CENTER (ITEM 6 ON THE FLOWCHART IN EXHIBIT
12		MTB-5)?
13	A.	Yes. As I mentioned in discussing product market distinctions, at least two
14		broad categories come to mind:
15		(1) Companies that serve small business, but do not serve residential
16		customers; and
17		(2) Companies that serve customers whose ILEC loop is provided over
18		all-copper facilities, but do not serve customers whose ILEC loop
19		is provided over fiber feeder and IDLC.

1	Q.	WHY DO YOU SAY THAT COMPANIES THAT DO NOT SERVE
2		RESIDENTIAL CUSTOMERS IN A GIVEN GEOGRAPHIC
3		MARKET SHOULD NOT BE CONSIDERED AS POTENTIAL
4		"TRIGGERING" COMPETITORS?
5	A.	As I have already explained, residential customers are not identical to
6		small business customers, which in turn are not identical to the medium
7		and larger businesses that the FCC has included in what it describes as the
8		"enterprise market."
9		The FCC recognized the "swing" role of small business customers
10		in the distinctions it drew between "mass-market" and "enterprise-market"
11		customers, noting:
12 13 14 15 16 17 18 19 20 21 22 23 24		Very small businesses typically purchase the same kinds of services as do residential customers, and are marketed to, and provided service and customer care, in a similar manner. Therefore, we will usually include very small businesses in the mass market for our analysis. We note, however, that there are some differences between very small businesses and residential customers. For example, very small businesses usually pay higher retail rates, and may be more likely to purchase additional services such as multiple lines, vertical features, data services, and yellow page listings. Therefore, we may include them with other enterprise customers, where it is appropriate in our analysis. <i>Triennial Review Order</i> , n. 432.
25		This statement, in combination with the FCC's observations on the
26		use of actual marketplace deployment as evidence that barriers to entry are
27		surmountable, suggests that the Commission should allow the empirical
28		evidence to dictate its view of whether residential and small business
29		customers are in the same market for purposes of the trigger analysis. If a

carrier serves small business customers but not residential customers using its own switch, that very fact implies that there is a meaningful difference between small business and residential customers. If that pattern is repeated, so that multiple carriers serve small business customers but not residential customers using their own switches, the evidence for distinct customer class markets becomes even more compelling.

It would be a grave public policy error to base a finding of no impairment solely or largely on evidence of carriers self-deploying switching to serve small business customers, leaving Kentucky residential customers with no meaningful competitive alternative. The Commission should require evidence that both residential and small business customers have competitive choices before it decides to eliminate CLECs' access to unbundled switching in any geographic market. Thus, a company that is not actively providing residential service with its own switches (*i.e.*, one that is only providing business service) should not be counted as a trigger company for mass-market switching.

Q. YOU ALSO SUGGESTED THAT THE COMMISSION SHOULD CONSIDER WHETHER THE SWITCH-BASED COMPETITOR IS OFFERING SERVICE OVER BOTH ALL-COPPER AND IDLC LOOPS. WHY IS IT IMPORTANT FOR THE COMMISSION TO CONSIDER THE TYPES OF UNE LOOPS OVER WHICH

#### POTENTIALLY TRIGGERING COMPANIES ARE PROVIDING

#### 2 RETAIL LOCAL EXCHANGE SERVICE?

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3 A. ILECs and CLECs have engaged in a long and contentious battle over the 4 procedures and cost for providing stand-alone unbundled loops to 5 customer locations that the ILEC serves via fiber feeder and IDLC. To 6 date, there is no consensus on a cost-effective means for making such 7 loops available. There is, however, no dispute that UNE-P can be 8 provisioned over the same IDLC facilities that the ILEC uses to provide its 9 own retail services. Unless a potentially triggering company is providing 10 switch-based services to mass-market customers over IDLC as well as all-11 copper loops, there is no actual marketplace evidence that the competitor 12 has overcome barriers to entry for customer locations served via IDLC. 13 Elimination of access to UNE switching under these circumstances would 14 effectively deny competitive alternatives to the growing number of 15 Kentucky customers served via IDLC.

## 16 Q. HOW DOES THE PRECEDING DISCUSSION RELATE TO THE 17 FLOWCHART IN EXHIBIT MTB-5?

18 A. I have identified two specific "screens" that should be considered during
19 the analysis that occurs as part of Item 7 in the flowchart. The first
20 "screen" asks whether the potential triggering carrier serves both
21 residential and small business customers. The second asks whether the
22 potential triggering carrier serves customers over both all-copper and

1		IDLC loops. The Commission should not consider the triggers to be
2		satisfied unless all customer groups within the identified market can be
3		reached by at least three retail or two wholesale providers that deploy their
4		own switches.
5	Q.	MS. TIPTON HAS IDENTIFIED A NUMBER OF CLECs THAT
6		SHE CLAIMS MEET THE SELF-PROVISIONING TRIGGER. DO
7		YOU AGREE THAT THESE CARRIERS SHOULD BE COUNTED
8		AS TRIGGERING COMPANIES?
9	A.	No. Two of the carriers cited by Ms. Tipton clearly do not actively market
10		services to residential customers. As I explained in my discussion of the
11		trigger "screens" above, these companies should be excluded from the
12		analysis. These companies are: ****BEGIN PROPRIETARY
13		INFORMATION****
14		
15		.****END PROPRIETARY
16		INFORMATION****
17	Q.	HOW DID YOU DETERMINE THAT THESE COMPANIES ARE
18		NOT ACTIVELY MARKETING SERVICES TO RESIDENTIAL
19		SUBSCRIBERS?
20	A.	Very simply, I examined the marketing materials placed by these
21		companies on their web sites. For each of the above companies, the

1		description of services offered plainly indicated that their focus was on the
2		provision of services to business customers.
3		I have attached to my rebuttal testimony Exhibit MTB-6. This
4		exhibit reproduces relevant pages from
5		
6		*END PROPRIETARY INFORMATION****
7	Q.	ARE THERE COMPANIES OTHER THAN THE TWO THAT YOU
8		HAVE DISCUSSED THUS FAR THAT FAIL TO MEET THE
9		CRITERIA FOR TRIGGERING CLECs?
10	A.	Yes. ****BEGIN PROPRIETARY INFORMATION****
11		****END
12		PROPRIETARY INFORMATION**** is a cable operator providing
13		service via cable lines. For the reasons cited in my earlier discussion
14		regarding the provision of local phone service by cable operators, this
15		company should not be counted toward the self-provisioning triggers.
16		Finally, ****BEGIN PROPRIETARY INFORMATION****
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16		1033-254405.html?legacy=cnet
17		1033-237+03.html: legacy enet
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19		**END DDODDIETA DV INFODMATION***
19		**END PROPRIETARY INFORMATION****
20	Q.	DOES OTHER EVIDENCE EXIST THAT SHOWS THE EXTENT
21		OF PARTICIPATION IN THE MARKET BY THE COMPANIES
22		THAT BELLSOUTH CITES AS TRIGGERING COMPANIES?

A.	Yes. In response to AT&T's Interrogatory Item No. 122, BellSouth
	provided a listing of the types and quantities of unbundled loops
	purchased by companies that BellSouth claims are triggering companies.
	While it is not clear that the lines shown in these data are limited to those
	lines used to provision mass market local exchange service, an
	examination of this information shows that these companies constitute at
	best a minimal presence in the two BellSouth-defined markets where
	BellSouth claims the triggers are met.

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As an initial matter, of the "trigger" companies cited by BellSouth, only \*\*\*\*BEGIN PROPRIETARY INFORMATION \*\* END PROPRIETARY INFORMATION \*\*\*\* appears to have ordered any voice grade unbundled loops. \*\*\*\*BEGIN PROPRIETARY **INFORMATION** \*\*END PROPRIETARY INFORMATION\*\*\*\* appear in the data provided by BellSouth, but appear to purchase only DS-1 and higher-speed unbundled loops). The data show that this "trigger" company purchases voice grade lines (2-wire loops and DS0 EELs) in all ten of the wire centers in the BellSouth-defined Louisville Zone 1 market, and in 5 of the 9 wire centers in the BellSouth-defined Louisville Zone 2 market. Overall, this company has 0.05% of the lines in the wire centers in which it is located in Louisville Zone 1, and 0.05% of the lines in the Louisville Zone 2 wire centers in which it is located. This company constitutes an even smaller proportion of the *total* lines in the Louisville Zone 2 market.

1		Moreover, the presence of the claimed "trigger" companies has
2		been declining. Over the 19-month period for which BST reported, the
3		number of UNE loops purchased by the CLEC has declined in most of the
4		15 wire centers where the CLEC has a presence. While there was an
5		increase in the number of voice grade lines purchased by the company
6		between May and September of 2002, by November of 2003, the company
7		represented in the data had only 65% of the lines that it had in September
8		of 2002. Exhibit MTB-8 displays graphically the decline in "trigger"
9		company voice grade lines over this period.
10	Q.	DO THE COMPANIES YOU HAVE DISCUSSED THUS FAR
11		EXHAUST THE LIST OF TRIGGERING COMPANIES CITED BY
12		BELLSOUTH?
13	A.	No. I was unable to determine the extent to which ****BEGIN
13 14	A.	No. I was unable to determine the extent to which ****BEGIN  PROPRIETARY INFORMATION  END
	A.	
14	A.	PROPRIETARY INFORMATION END
14 15	A.	PROPRIETARY INFORMATION END PROPRIETARY INFORMATION**** actively markets local exchange
14 15 16	A.	PROPRIETARY INFORMATION END  PROPRIETARY INFORMATION**** actively markets local exchange services to residential customers using UNE-L. As I noted earlier,
<ul><li>14</li><li>15</li><li>16</li><li>17</li></ul>	A.	PROPRIETARY INFORMATION END  PROPRIETARY INFORMATION**** actively markets local exchange services to residential customers using UNE-L. As I noted earlier, however, it does not appear that this company has ordered any voice grade
14 15 16 17 18	A.	PROPRIETARY INFORMATION**** actively markets local exchange services to residential customers using UNE-L. As I noted earlier, however, it does not appear that this company has ordered any voice grade lines in wire centers in the markets in which BellSouth claims the triggers
14 15 16 17 18	A. Q.	PROPRIETARY INFORMATION**** actively markets local exchange services to residential customers using UNE-L. As I noted earlier, however, it does not appear that this company has ordered any voice grade lines in wire centers in the markets in which BellSouth claims the triggers

1	A.	Yes. Of the six companies cited by BellSouth as satisfying the self-
2		provisioning trigger, I have been able to determine that five obviously do
3		not meet the criteria for a triggering company. I have been unable to
4		determine whether or not the remaining company should qualify as
5		triggers. I have attached a summary of my conclusions as Exhibit MTB-9.
6		Even if the remaining company provides service both to residential and
7		small business mass market customers, the Commission should consider
8		that the triggering companies represent only a very small portion of the
9		market in assessing the ability of this company to provide a realistic
10		competitive alternative to BellSouth.
11 12 13	III.	REBUTTAL OF THE DIRECT TESTIMONY OF MR. STEGEMAN (POTENTIAL DEPLOYMENT MODEL)
14	Q.	BELLSOUTH HAS PRESENTED THE BELLSOUTH ANALYSIS
15		OF COMPETITIVE ENTRY ("BACE") MODEL THROUGH THE
16		TESTIMONY OF MR. STEGEMAN IN THIS PROCEEDING.
17		WHAT IS YOUR UNDERSTANDING OF THE PURPOSE OF THIS
18		MODEL?

A. According to Mr. Stegeman and Dr. Aron, the model is presented to show
the feasibility of market entry to CLECs seeking to provide local exchange
service using their own switches in combination with certain unbundled
loop, transport, and collocation facilities obtained from the ILEC.

#### Q. HAVE YOU BEEN ABLE TO ASSESS THE MODEL'S

#### 2 METHODOLOGY AND CALCULATIONS?

- A. No, I have not. The model presented by BellSouth is a compiled Visual

  Basic application. As such, none of the formulae or intermediate results of

  calculations are accessible or viewable. Consequently, at this time the

  model is a "black box." I have only been able to view the effect that

  changes in inputs have on the model's outputs.
- 8 Q. HOW DO THE MODEL'S INPUTS AFFECT THE MODEL'S

#### **OUTPUTS?**

A. I would first note that the combination of inputs used in the default configuration of the BACE virtually guarantees that a CLEC will be profitable in almost all wire centers in the state. Varying a single input, therefore, may not affect the number of markets, however defined, that appear to be profitable based on BACE results. I tested the sensitivity of the model by changing inputs that should have a dramatic impact on CLEC profitability. In particular, the customer churn rate and the customer acquisition cost should be significant factors in determining profitability. If the customer churn rate is high, or if the customer acquisition cost is high, the CLEC will likely be unable to recover customer specific costs from the revenue derived from each customer during the time that the customer remains with the CLEC. The CLEC's cost of capital and the CLEC's market share likewise should be significant factors in determining

profitability, in that they will affect the CLEC's ability to recover its capital expenditures for collocation and other capital equipment, and the nonrecurring charges associated with establishing collocation facilities and transport facilities.

Varying each of these inputs individually did little to change the number of BellSouth wire centers that were projected by the model to be profitable. Using BellSouth's default inputs, but turning off certain filters used by the model that eliminate unprofitable market segments, the BACE estimated that net present value would be negative for mass market customers in 140 of 179 wire centers in BellSouth territory. Increasing the cost of capital from BellSouth's default value of 13.09% to 15% reduced CLEC profitability, but caused only two additional wire centers to produce negative net present value. Changes in the CLECs market share had a somewhat greater effect on model results. Decreasing market share from BellSouth's default value to 10% in all mass market segments increased the number of negative net present value wire centers from 140 to 155. Decreasing market share further to 5% in all mass market segments resulted in a further increase in negative net present value wire centers to 169.

Manipulating the customer churn rates also had a relatively small effect on the number of unprofitable wire centers. Keeping the cost of capital at 15%, increasing monthly customer churn from BellSouth's default values to 5% across all mass market customer segments increased

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1		the number of negative net present value wire centers from 140 to 147.
2		Increasing churn further to 6.5% had the effect of increasing the number
3		of unprofitable wire centers to 149.
4		I have attached to this testimony Exhibit MTB-10, which presents
5		the results of several sensitivity tests that I performed on the BACE
6		model.
7		Varying each of these inputs certainly affects the absolute level of
8		CLEC profits. Increasing the customer monthly churn rate from
9		BellSouth's default value to 5%, for example, reduces CLEC profitability
10		overall by more than one-third, and further increasing the churn rate to
11		6.5% reduces overall profitability by approximately 25%. As I will show
12		later in this testimony, the combination of correct input values to BACE
13		can result in a much different picture of the potential profitability of CLE
14		UNE-L based local exchange service.
15	Q.	DOES THE MODEL ACCURATELY PORTRAY THE
16		CHALLENGES FACED BY CLECs IN PROVIDING LOCAL
17		EXCHANGE SERVICES?
18	A.	No, it does not, in its default configuration. An analysis of the inputs used
19		in the model and the overall operation of the model reveals a number of

aspects of the model that cause it to present misleading and inaccurate

results.

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## Q. HOW DOES THE MODEL PRESENT MISLEADING RESULTS IN ITS DEFAULT CONFIGURATION?

A.

A part of the problem is that the BACE, operated with default inputs, discards certain markets where CLEC entry is, on the model's own terms, unprofitable. The default inputs used in the model cause the model to discard: 1) LATAs for which CLEC entry is unprofitable, 2) markets for which CLEC entry is unprofitable, and 3) customers that may not profitably be served. The result of these exclusions is that the model results portray CLEC entry as more profitable than is actually, under the model's own terms, the case.

A second aspect of the problem lies in the market definition proposed by BellSouth and in the way that the model aggregates results to conform to this market definition. The model performs this aggregation in two ways. First, although the model calculates results separately for the mass market and enterprise market in each wire center, it aggregates results for these two product markets into a single value. Second, although the model operates fundamentally at the level of the individual wire center, it aggregates the results for all wire centers in each of BellSouth's proposed market areas into a single value. The result is that the model result presented by BellSouth obscures differences in the profitability of the enterprise and mass markets, and in the profitability of each wire center in a manner that in turn obscures factors that enter into each CLEC's decision whether or not to enter a given market. Exhibit MTB-11

1	to this testimony presents the results of the BACE model, using
2	BellSouth's default inputs with the exclusionary filters turned off, for the
3	individual wire centers in each of BellSouth's proposed markets. Note that
4	in the Evansville-Henderson Zone 2 "market," one of the BellSouth-
5	defined markets for which no impairment is claimed by Dr. Aron, half of
6	the wire centers yield negative net present value to a prospective CLEC.
7	The same phenomenon may be observed in the Lexington Zone 2 market
8	proposed by BellSouth, where 4 of 11 wire centers are unprofitable for
9	UNE-L based CLECs. BellSouth's proposed market definition obscures
10	pockets of unprofitability where BellSouth's own analysis shows that it
11	would be unprofitable for a CLEC to provide service there in a UNE-L
12	environment. If the market definition proposed by BellSouth is adopted,
13	customers located in those wire centers could be left without competitive
14	alernatives, even if BellSouth's profitability analysis is assumed to be an
15	accurate depiction of the business situation faced by a UNE-L based
16	CLEC.

- IV. REBUTTAL OF THE DIRECT TESTIMONY OF DR. ARON
  (POTENTIAL DEPLOYMENT)
- 19 Q. DR. DEBRA ARON HAS PRESENTED TESTIMONY ENDORSING
  20 THE APPROACH TAKEN BY THE BACE IN ESTIMATING THE
  21 CLECS' PROFITABILITY IN OFFERING LOCAL EXCHANGE
  22 SERVICE USING THEIR OWN SWITCHES. DO YOU DISAGREE
  23 WITH DR. ARON'S STATEMENTS IN THIS REGARD?

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I	A.	As I have already stated, I do not disagree with the general approach to
2		estimating CLEC profitability outlined in Dr. Aron's and Mr. Stegeman's
3		testimony. I also have stated concerns with the manner in which this
4		approach is implemented by the model.
5	Q.	DR. ARON ALSO PROPOSES A NUMBER OF INPUTS TO THE
6		MODEL THAT SHE CLAIMS SHOULD BE USED IN THE
7		POTENTIAL DEPLOYMENT ANALYSIS. DO YOU AGREE WITH
8		DR. ARON'S RECOMMENDATIONS?
9	A.	No, I do not. Many of the input assumptions proposed by Dr. Aron for use
10		in the BACE model are unrealistic, and represent a quite optimistic view
11		of the challenges that would face CLECs in a post-UNE-P environment.
12	Q.	AS JUSTIFICATION FOR CHOOSING VALUES THAT DO NOT
13		REFLECT CURRENT CLEC EXPERIENCE, DR. ARON STATES
14		THAT THE FACT THAT SEVERAL CLECS HAVE GONE
15		BANKRUPT SUGGESTS THAT "ON AVERAGE, CLECS DO
16		NOT HAVE OPTIMALLY EFFICIENT OPERATIONS." DO YOU
17		AGREE?
18	A.	Certainly not. If anything, it should suggest the opposite. Any firm faced
19		with bankruptcy will do anything it can to cut operating expenses in an
20		effort to remain solvent. This may not be an "optimally efficient" mode of

operation, but it would be suboptimal to the low side; the operating

- expense would not reflect the level of expense that would be expected for an efficient firm in sustainable operation.
- 3 Q. DR. ARON RECOMMENDS THAT THE ULTIMATE MARKET
- 4 SHARE FOR THE EFFICIENT CLEC BE SET AT 15% OVER ALL
- 5 MARKET SEGMENTS. DO YOU AGREE WITH THIS
- 6 **RECOMMENDATION?**
- 7 A. No, I do not. Dr. Aron cites penetration levels achieved by CLECs using 8 UNE-P to provide local exchange service and penetration levels by cable 9 operators achieved among customers that subscribe to cable as 10 justification for her recommendation. I would note first that the 15% 11 market share number cited for CLEC market penetration is for all CLECs 12 in aggregate, not for individual CLECs (with the exception of the 13 penetration cited for AT&T in New York). I also would note that the cable 14 penetration figures are for penetration among only those customers that 15 are subscribers to the cable system, with a total subscriber base only of 16 those subscribers for whom cable services are available – not the entire 17 universe of telephone subscribers. Nationwide, CLECs, in aggregate, have 18 achieved a market penetration to date of just under 15%. If the FCC has 19 established as a benchmark the presence of three unaffiliated retail 20 providers of local exchange service, this would imply a market share for 21 each carrier of only 5%, assuming each is equally successful in winning customers' business. 22

In view of the challenges that will face CLECs in moving from a UNE-P based service to a service based on self-provisioning of the switching function, and in view of the increasingly aggressive winback activities being pursued by ILECs, including BellSouth, I believe that a 15% market share projection is far too aggressive. The ultimate market share that an individual CLEC may achieve is unknown and unknowable, depending as it does on many uncertain factors, including the price that the CLEC is able to establish relative to the ILEC, the quality of service that the CLEC is able to provide (a factor that is only partly under the control of the CLEC, because the loop and transport components of the service will remain under the control of the ILEC, from a technical perspective), the ability of the ILEC to efficiently manage the hot cut process, and the ability of the CLEC to bring new products and service capability to the market and the cost of doing so. Additionally, as I have discussed earlier in this testimony, the FCC's decision to preclude CLECs from obtaining access to the broadband data capabilities of hybrid fiber/copper loops means that CLECs will be unable to serve a large and increasingly important segment of the market, particularly higherspending residential and small business customers, who will demand broadband data services. DR. ARON ALSO RECOMMENDS A CHURN RATE OF 4% PER

Q. DR. ARON ALSO RECOMMENDS A CHURN RATE OF 4% PER MONTH FOR RESIDENTIAL CUSTOMERS. DO YOU AGREE WITH THIS RECOMMENDATION?

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1	A.	No, I do not. The same factors that I have discussed with regard to the
2		market share that will be attainable by CLECs in the post-UNE-P market
3		apply as well to the churn rate that CLECs will experience. Any input to
4		the model that relies exclusively on the experience of UNE-P based
5		CLECs will likely understate the actual churn rates that will be
6		experienced going forward. Again, the actual churn rate is unknown and
7		unknowable at this time. In making its findings regarding potential
8		deployment, the Commission should consider a range of possibilities,
9		including scenarios that increase the level of churn over historical levels.
10	Q.	DR. ARON CITES SEVERAL ANALYST'S REPORTS TO
11		SUPPORT HER RECOMMENDED CUSTOMER ACQUISITION
12		COST OF \$95. DO YOU AGREE WITH THIS
13		RECOMMENDATION?
14	A.	No, I do not. Dr. Aron cites a number of sources, including (at the low
15		end) a reference to ZTel's estimated customer acquisition costs that does
16		not include advertising. She goes on to claim that an efficient UNE-L
17		based CLEC would likely incur lower customer acquisition costs than
18		current UNE-P based CLECs.
19		In supporting a customer acquisition input of \$130, Dr. Gabel cites
20		in notes attached to his model a range of estimates from the same types of
21		sources cited by Dr. Aron. These estimates range from \$80 to more than

1	\$400 per customer, a range higher at the low end and much higher at the
2	high end than the estimates provided by Dr. Aron.

Again, customer acquisition cost in a post-UNE-P market is an unknown and unknowable quantity. Some of the factors that I already have discussed with regard to market share and churn also will have an impact on customer acquisition costs, particularly the price that the CLEC will be able to establish relative to the ILEC's price, the aggressiveness of ILEC winback efforts, and the quality of service that the CLECs are able to attain. Given that the range of estimates for current CLEC customer acquisition cost varies so widely, I believe that it would be prudent for the Commission to consider a range of scenarios with regard to customer acquisition costs, including scenarios where customer acquisition costs in the post-UNE-P market substantially exceed those for UNE-P based CLECs.

## V. RESULTS OF RUNNING BELLSOUTH MODEL WITH MORE REALISTIC INPUTS, AND WITH THE CORRECT WIRE CENTER MARKET DEFINITION.

Q. DR. BRYANT, IN YOUR DIRECT TESTIMONY YOU

PRESENTED THE RESULTS OF THE IMPAIRMENT ANALYSIS

TOOL THAT YOU SUBMITTED USING A RANGE OF POSSIBLE

INPUTS, SHOWING THE RESULT FOR A NUMBER OF

POSSIBLE SCENARIOS. HAVE YOU PERFORMED A SIMILAR

ANALYSIS USING THE BACE?

A. Not in the same way. Because the impairment analysis tool calculates results relatively quickly, it was possible to evaluate several hundred randomly-generated scenarios in a relatively short period of time. The BACE is a more complex model, and takes approximately 40 minutes to produce results for any set of specified inputs. Due to the short time frames in this proceeding and the press of similar proceedings in other states, I was not able to produce the same type of analysis using the BACE as I presented using the impairment analysis tool.

I have already presented in Exhibit MTB-10 a summary of the results of a sensitivity analysis that I performed for several individual user inputs to the model. I have also performed a series of runs of the model using combinations of certain key variables. The results of this analysis are shown in Exhibit MTB-12. Each column in this exhibit presents the model results for the mass market customers in each wire center. For all model runs, BellSouth's exclusionary filters were turned off. The column header in each of the columns shows the user inputs that were changed from BellSouth's default values.

## Q. IN THIS EXHIBIT, YOU USE MONTHLY REVENUE OF \$52.35. WHAT DOES THIS VALUE MEAN?

A. As I noted in my direct testimony, MCI recently has obtained data from TNS Telecoms on the monthly average residential telecommunications spending by household for each wire center in Kentucky. This is the same

source of information that is used by the FCC in compiling its annual statistics on telecommunications expenditures, and is based on a survey of actual customer bills. The \$52.35 value that I used is the weighted average expenditure per line for local and long distance services, and includes the subscriber line charge and taxes. This value was applied only to the residential revenue inputs in the BACE model. Business revenues were left at BellSouth default values.

#### Q. WHAT DOES YOUR ANALYSIS SHOW?

A.

It is difficult to draw conclusions from my analysis. The BACE model produced results that clearly are contrary to reason. Note that in column B of Exhibit MTB-12, I used a market share of 10% as an input. In column C, all other inputs were held constant, but the market share was decreased to 5%. One would expect that an decrease in market share would result in a reduction in profitability, but the BACE model instead shows that CLECs would actually be *closer to* profitability in all wire centers Due to the occasional anomalous results that the model produces, I do not have confidence in the ability of the model to produce valid results. However, just as in the analysis that I presented in my direct testimony, the results are both highly variable among wire centers and overall quite dependent upon the inputs values chosen. Exhibit MTB-12 shows that, depending upon the combination of input values chosen, CLECs are not profitable in any wire center in BellSouth's territory in Kentucky.

## Q. PLEASE SUMMARIZE YOUR CONCLUSIONS REGARDING THE BACE MODEL.

Having had only a limited amount of time to work with the model, and without access to the source code or intermediate calculations produced by the model, I am not in a position at this time to either endorse or reject the model itself. As I have discussed in this testimony, there are aspects of the model's operation and the relationship between inputs to the model and the outputs the model produces that raise serious questions as to whether the model accurately and reliably calculates the costs and revenues that are pertinent to a CLEC's decision to provide local exchange service using self-provisioned switches.

I would emphasize again that many of the inputs to the model are uncertain – it cannot be known with any certainty what costs would be incurred and what revenues would be available to CLECs in a post-UNE-P environment. The best that can be said, whatever model is used, is that under some sets of assumptions, CLECs can be profitable in some wire centers in Kentucky. Under other sets of assumptions, CLECs are not profitable in any wire center in Kentucky. Given this uncertainty, the Commission cannot conclude that CLECs are not impaired in any market in Kentucky.

#### Q. DOES THIS CONCLUDE YOUR TESTIMONY?

A. Yes, it does.

A.

#### **AFFIDAVIT**

COUNTY OF TRAVIS	
for the State and County aforesaid, personall	rity, duly commissioned and qualified in and y came and appeared ag by me first duly sworn deposed and said
He/She is appearing as a witness before the Case No. 2003-00379, Review of Federal Review Order Regarding Unbundling Requirement of the Commission and dufforth in his/her Direct Testimony consisting exhibit(s), and in his/her Rebuttal Teandexhibit(s).	rements for Individual Network Elements, ally sworn, his/her testimony would be set of 97 pages and
	[Witness Name]   MARK T. BRYANT
	EXXII DI I A
	[Witness Name] MARK T. BRYHNI
SWORN TO AND SUBSCRIBED BEFORE THIS <u>30 <sup>12</sup></u> DAY OF MARCH, 2004	•
SWORN TO AND SUBSCRIBED BEFORE THIS 30 DAY OF MARCH, 2004  A Wiethown	•