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Michael P. Goggin General Attorney

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RECULTS AND REPORTING

September 10, 1999

Mrs. Blanca S. Bayó Director, Division of Records and Reporting Florida Public Service Commission 2540 Shumard Oak Boulevard Tallahassee, FL 32399-0850

#### Re: Docket No. 990649-TP (UNEs)

Dear Ms. Bayó:

Enclosed please find the original and fifteen copies of BellSouth Telecommunications, Inc.'s Rebuttal Testimony of D. Daonne Caldwell, Dr. Richard D. Emmerson, Jerry Hendrix and Alphonso J. Varner, which we ask that you file in the above-referenced matter.

A copy of this letter is enclosed. Please mark it to indicate that the original was filed and return the copy to me. Copies have been served to the parties shown on the attached Certificate of Service.

Sincerely, Michael-Michael P. Goggin

cc: All Parties of Record Marshall M. Criser III R. Douglas Lackey Nancy B. White

REC. FILED J OF RECORDS

> 10917 Caldwell 10918 Emmerson 10919 Hendrix 10920 Varnen

### CERTIFICATE OF SERVICE Docket No. 990649-TP

I HEREBY CERTIFY that a true and correct copy of the foregoing was served via

U.S. Mail this 10th day of September, 1999 to the following:

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Michael P. Goggin

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1	BELLSOUTH TELECOMMUNICATIONS, INC.	L.,
2	<b>REBUTTAL TESTIMONY OF D. DAONNE CALDWELL</b>	
3	<b>BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION</b>	
4	DOCKET NO. 990649-TP	
5	<b>SEPTEMBER 10, 1999</b>	
6		
7	Q. PLEASE STATE YOUR NAME, ADDRESS AND OCCUPATION.	
8		
9	A. My name is D. Daonne Caldwell. My business address is 675 W. Peachtree St.,	
10	N.E., Atlanta, Georgia. I am a Director in the Finance Department of BellSouth	
11	Telecommunications, Inc. (hereinafter referred to as "BellSouth" or "the	
12	Company"). My area of responsibility relates to economic costs.	
13		
14	Q. ARE YOU THE SAME D. DAONNE CALDWELL WHO FILED DIRECT	
15	TESTIMONY IN THIS DOCKET?	
16		
17	A. Yes. I filed direct testimony on August 11, 1999, that outlined requirements	
18	BellSouth believes should be imposed on recurring and nonrecurring cost	
19	preparation for unbundled network elements ("UNEs"), combinations of network	
20	elements, and deaveraged offerings. Additionally, $\mathbb{I}$ addressed the underlying cost	
21	methodology, the models, and the major inputs BellSouth believes are appropriate	
22	in cost support development.	
23		
24	Q. WHAT IS THE PURPOSE OF YOUR REBUTTAL TESTIMONY?	
25		
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1	Α.	The purpose of my rebuttal testimony is to respond to comments made by witnesses
2		with respect to cost development. In particular, I reply to AT&T witness Dr.
3		August Ankum, COVAD witness, Ms. Terry Murray, e spire witness, Mr. James
4		Falvey, and Intermedia witness, Ms. Julia Strow. Additionally, I briefly discuss the
5		cost study proposals offered by GTE and Sprint.
6		
7	Q.	SEVERAL OF THE WITNESSES DISCUSS COST METHODOLOGY.
8		PLEASE COMMENT.
9		
10	<b>A</b> .	There appears to be a general consensus that the Federal Communications
1 <b>1</b>		Commission ("FCC")-defined Total Element Long Run Incremental Cost
12		("TELRIC") methodology is the appropriate foundation for determining the costs
13		for network capabilities offered to Alternative Local Exchange Carriers ("ALECs").
14		In fact, all parties believe that the TELRIC methodology should be utilized to
15		determine cost, regardless of whether the network capability is a UNE, a
16		combination of UNEs, or a deaveraged element. BellSouth agrees with this
17		assessment. However, it is apparent that the application of the TELRIC
18		methodology is open for interpretation.
19		
20	Q.	DO PARTIES AGREE ON CERTAIN ASPECTS OF THE TELRIC COST
21		METHODOLOGY?
2 <b>2</b>		
23		the study based of
24	А.	Yes. As I stated in my direct testimony, the attributes of a cost study based on
25		TELRIC methodology, as recognized by the Florida Public Service Commission
		("Commission"), are:

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1 (1)Efficient network configuration – the cost should be based on the use 2 of the most current telecommunications technology presently available and the 3 economically efficient configuration, given the existing wire center locations. 4 (2)Long run – the studies should consider a timeframe long enough to 5 reflect the variability of the cost components. 6 (3) Volume sensitive and volume insensitive costs are considered – both 7 volume sensitive and volume insensitive costs should be considered. These are 8 the costs that will be avoided by discontinuing, or incurred by offering, an entire 9 product or service, holding all other products or services offered by the firm 10 constant. A corollary to this directive is the principle of cost causation, i.e., the 11 costs included in the study are those that are caused because BellSouth offers 12 an unbundled network element. 13 **Forward-looking** – inputs (e.g., cost of capital and depreciation rates) (4) 14 should be based on a forward-looking perspective. 15 (5) Shared and common costs are considered. Parties filing testimony in this docket espouse their belief that these principles 16 17 should be incorporated into future filings. BellSouth agrees. In fact, BellSouth 18 used these guidelines in the studies it filed with the Commission in Docket Nos. 960757-TP, 960833-TP, and 960846-TP. Additionally, BellSouth will adhere to 19 these principles in future filings. 20 21 Let me mention that all Public Service Commissions, Alabama, Florida, Georgia, 22 Kentucky, Louisiana, Mississippi, North Carolina, and South Carolina, (with the 23 exception of Tennessee) within the BellSouth region have also adopted these

standards for cost development. (The Tennessee Regulatory Authority has not 25

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issued a final order in the generic cost docket, but the preliminary order reflects the
use of TELRIC methodology.)

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## Q. PLEASE EXPAND ON THE POTENTIAL CONTROVERSY SURROUNDING THE APPLICATION OF THESE PRINCIPLES.

6 A. It is probably the first and fourth points from the list that cause the most controversy. These two principles essentially ask, "What constitutes a forward-7 8 looking, least-cost, efficient network?" Also, one needs to consider the question, 9 "Whose network should be considered?" This Commission in Order No. PSC-96-1579-FOF-TP recognized that consideration must also be given to the costs 10 BellSouth will incur. It found BellSouth's studies were appropriate because, "they 11 reflect BellSouth's efficient forward-looking costs." (Order at Page 32, emphasis 12 13 added) Thus, the only appropriate network that should be considered is the one BellSouth will deploy because only that network will account for the costs 14 BellSouth will incur. However, the network should reflect future deployment 15 characteristics. BellSouth's current cost studies reflect the forward-looking 16 criteria. Additionally, the methodology BellSouth proposes will also adhere to this 17 forward-looking guideline. 18

19

Let me highlight some of the criticism made against BellSouth's cost methodology
related to this issue. On page 13 of his testimony, e.spire witness, Mr. Falvey,
claims that BellSouth's cost studies utilized in the recent UNE dockets are
inconsistent with forward-looking pricing principles. Mr. Falvey further asserts on
page 14 that, "BellSouth's interconnection, UNE and collocation pricing are
inconsistent with the FCC's designated pricing standards." First, Mr. Falvey offers

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no concrete examples of where BellSouth has deviated from the forward-looking
 requirement. Further, this Commission has accepted BellSouth's cost study
 methodology as appropriate in Docket Nos. 960757-TP, 960833-TP, and 960846 TP.

6 GTE witness, Mr. Tucek, highlights the dilemma cost analysts experience when 7 trying to determine forward-looking costs. On page 9 of his testimony, he states; 8 "To be useful, the costs must be grounded in reality. Although the cost estimates 9 should reflect the forward-looking economic costs of provisioning elements, the 10 existing network cannot be ignored." On the other hand, on page 17 of his 11 testimony, AT&T witness, Dr. Ankum, would have you believe that "cost analysts" 12 should simply answer the question of which technology would be most cost efficient." Dr Ankum's approach is exactly the one rejected by the FCC in 13 Paragraph 683 of the Order. The FCC stated; "This approach, however, may 14 15 discourage facilities-based competition by new entrants because new entrants can use incumbent LEC's existing network based on the cost of a hypothetical least-16 cost, most efficient network." Instead, the FCC adopted an approach that "closely 17 represents the incremental costs that incumbents actually expect to incur in making 18 network elements available to new entrants." (¶685) The FCC recognized the 19 existing network design and existing infrastructure must be considered. 20

21

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Let me emphasize, I am not advocating using 100% of the current technology in
determining cost, but neither am I advocating 100% of any one type of technology
based solely on that technology representing the most forward-looking design.

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# Q. CAN YOU OFFER EXAMPLES THAT WOULD ILLUSTRATE THIS POINT?

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A. Yes. For example, BellSouth currently deploys two basic types of digital loop 4 5 carrier, integrated and universal. In the past, intervening parties have argued that 6 integrated digital loop carrier is the most "forward-looking". They have gone even 7 further and defined the type of integrated digital loop carrier to be 100% TR303 8 compliant. I would not contest the point that integrated digital loop carrier is the 9 most forward-looking for switched lines, however, the contention that it should be 10 100% TR303 is inappropriate. BellSouth has less than 1% of its lines served by 11 TR303, a figure that will not change significantly in the future. Additionally, I 12 would need to add an additional caveat; integrated carrier is the forward-looking 13 technology for specific applications. There are circumstances where it would make 14 economic sense to deploy universal digital loop carrier, not integrated, for example, 15 isolated demand for non-switched circuits. Since the cost studies are based on the 16 network as a whole, the impact of these cases where universal digital loop carrier is placed must be considered in developing cost. Additionally, this mixture of 17 technologies, universal and integrated, will continue into the future. Thus, the 18 question becomes one of what constitutes a forward-looking mix of technologies, 19 not which particular technology should be used exclusively. BellSouth would 20 support using a projected mix of future deployment, not the current mix. In fact, 21 on page 16 of his testimony, Dr. Ankum appears to agree with this methodology. 22 He states, "the appropriate technology mix to be used in cost studies may not 23 correspond to actual technologies that the company may actually be deploying or 24 has deployed in the past." Of course, the question, of the "appropriate technology 25

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mix" remains and will be answered in Phase II of these proceedings when specific
inputs are discussed. BellSouth asserts that the technology mix utilized in cost
development should reflect <u>BellSouth's</u> future deployment plans, not an arbitrary
estimate.

#### 5

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# 6 Q. ARE THERE EXAMPLES DR. ANKUM PRESENTS WITH WHICH 7 BELLSOUTH CAN AGREE?

8

9 A. Yes. Dr. Ankum does offer an example with which BellSouth agrees. On page 19, 10 he advocates excluding analog switches from cost studies. BellSouth feels this is 11 appropriate since BellSouth is no longer deploying analog switches in its network. 12 The forward-looking, replacement technology is digital and thus is the appropriate 13 input into cost development. In other words, the future projected mix of 14 analog/digital switch deployment is 0%/100%. In fact, BellSouth takes Dr. Ankum's suggestion one step further by only including the latest generic of the 15 digital switch and the most advanced processor the vendors offer to BellSouth. 16 17 **O. IN ADDITION TO NETWORK DESIGN, ARE THERE OTHER ASPECTS** 18 OF THE FORWARD-LOOKING PRINCIPLE THAT NEED TO BE 19 20 ADDRESSED?

21

A. Yes. On page 20 of his testimony, Dr. Ankum alleges that the forward-looking
 principle mandates that fill factors be based on the utilization of facilities "over the
 entire economic life of the facility."

25

First, let me reference the discussion from the FCC Order that mentions fill or utilization. The FCC, in paragraph 682, outlines the methodology that should be utilized with respect to fill factors. It states that per unit costs associated with a particular element "must be derived by dividing the total cost associated with the element by a reasonable projection of the actual total usage of the element." Thus, the FCC is advocating the use of a projected, actual fill factor.

7

8 Therefore, it makes no sense to attempt to isolate a single facility and determine the 9 utilization "over the entire economic life of the facility." The telecommunications 10 network grows in lumps; cross sections of loops range from less than 20% fill to 11 the point where relief is necessary. BellSouth is placing new facilities throughout 12 its network in Florida, therefore, this situation will continue in the future. Thus, 13 only by looking at the network as a whole can one determine an accurate projection 14 of utilization. This Commission has reviewed fill factors previously in Docket Nos. 15 960757-TP, 960833-TP, and 960846-TP and has agreed with BellSouth's 16 interpretation of the FCC Order and its application in cost studies. In Order No. 17 PSC-98-0604-FOF-TP, this Commission ruled, "... we find it appropriate to accept 18 BellSouth's definition of utilization or fill factor for use in these proceedings." 19 (Order at Page 79) "BellSouth defines the utilization factor as the number of 20 assigned cable pairs divided by the number of available pairs." (Order at Page 78) 21 Additionally, if Dr. Ankum's definition is implemented, the "actual" requirement of 22 the FCC principle will never be fulfilled.

23

## 24 Q. SEVERAL WITNESSES HAVE IMPLIED THAT USE OF COMPANY-

### 25 SPECIFIC DATA REFLECTS AN EMBEDDED, INEFFICIENT

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### NETWORK AND THUS, THE INCORRECT COST. PLEASE COMMENT.

2

3 A. This false conclusion was based on the fundamental theorem that the incumbent provider is, by default, inefficient. In Docket Nos. 960757-TP, 960833-TP, and 4 5 960846-TP this identical argument was presented before this Commission. Other parties have gone so far as to present cost models based on non-Florida input, e.g., 6 depreciation lives from Bell Atlantic, drop investment from a 1993 New Hampshire 7 study, and structure sharing percentages derived from unrealistic "expert" 8 estimates, in a misguided attempt to present forward-looking data. (Commission 9 Order PSC-96-1579-FOF-TP, Pages 27-28) However, in its Order, this 10 Commission rejected these models and their inputs because they did "not produce 11 estimated costs which are representative of the costs of BellSouth's network in 12 Florida." (Commission Order PSC-96-1579-FOF-TP, Page 29) BellSouth reaffirms 13 its stand that only by utilizing BellSouth-specific input would the final cost result 14 15 reflect the cost BellSouth incurs.

16

Additionally, BellSouth's cost models incorporate the current network deployment 17 guidelines. These guidelines have been formulated to ensure that BellSouth's 18 network will be (1) forward-looking and (2) economically efficient. Since the 19 models are based on these current engineering rules, any past "inefficiencies" have 20 been eliminated, with older technologies being superceded by newer ones. 21 However, past technologies are not inefficient. They were the correct technology 22 at the time they were deployed and have application even today. Additionally, 23 these engineering rules detail where and when it is appropriate to deploy a certain 24 technology. In other words, there are caveats associated with the placements that 25

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1 are considered in BellSouth's cost studies.

2

BellSouth utilizes historical information only as a starting point in developing cost
study inputs. Future projections of expense and investment-related expenditures
are used to develop the final input. Integrated into these future projections are
productivity improvements, savings gleaned from advances in technology, and
contractual agreements resulting in discounts.

8

# 9 Q. YOU MENTIONED CONTRACTS, SEVERAL PARTIES ASSERT THAT 10 CONTRACTS ARE RELEVANT TO DETERMINING FORWARD11 LOOKING COSTS. PLEASE RESPOND.

12

13 A. COVAD witness, Ms. Murray, and AT&T witness, Dr. Ankum, specifically cite 14 contracts as an important consideration in determining forward-looking costs. I 15 would have to agree. However, their contention that BellSouth is obligated to 16 provide copies of proprietary information to all parties is extreme. BellSouth 17 foresees several potential problems with their request: (1) confidential data can 18 become public, (2) contractual terms can be presented out-of-context, and (3) 19 contractual caveats/limitations can be ignored. Thus, BellSouth is reluctant to 20 release contracts. However, BellSouth is willing to come to some mutually 21 agreeable resolution whereby this Commission will be assured the most current discounts are reflected in the cost studies without the potential violation of 22 proprietary agreements and misrepresentations of the contracts. 23 24

### 25 Q. THIS COMMISSION HAS ASKED FOR INPUT ON THE

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# DEVELOPMENT OF NONRECURRING COSTS AND WITNESSES HAVE PROVIDED COMMENTS. PLEASE PROVIDE YOUR RESPONSE TO THEIR STATEMENTS.

4

5 A. Dr. Ankum is correct in his statement that nonrecurring costs should follow the 6 same TELRIC guidelines imposed on recurring cost development. In particular his 7 discussion of cost causation is pertinent to nonrecurring cost calculations. 8 However, the same caution previously discussed with respect to recurring cost 9 methodology must be exercised when reviewing the implementation of the 10 nonrecurring cost methodology. Only forward-looking, achievable provisioning 11 practices should be considered. Additionally, only BellSouth-specific inputs should 12 be utilized. Thus, Dr. Ankum's statement on page 45 of his testimony, that 13 nonrecurring costs are "reduced significantly or they become negligibly small" if 14 integration with BellSouth's operational support systems ("OSS") are achieved, 15 should be considered with these criteria in mind.

16

17 This same argument concerning total system integration was made when AT&T 18 presented its nonrecurring cost model in Docket Nos. 960757-TP, 960833-TP, and 19 960846-TP. Witnesses supporting the model asserted that nonrecurring costs 20 should reflect only systems that are consistent with the Total Network Management 21 ("TNM") guidelines, i.e., the systems have achieved total integration. BellSouth's 22 network is "consistent" with the TNM guidelines. However, the network is not 23 100% TNM compliant and never will be 100% compliant. Network management refers to the equipment, procedures, and operations designed to keep a traffic 24 network operational. Total Network Management implies an integrated network 25

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1 where each vendor's equipment communicates with other vendor supplied 2 equipment, operations are seamless, and procedures require no (or little) human intervention. BellSouth's goal is to evolve toward this standard, but due to the 3 4 enormous investment BellSouth has in copper plant, total end-to-end compliance 5 will never materialize. The substantial capital outlay and labor required to make 6 this goal a total reality are cost prohibitive, requiring replacement of existing, 7 functional plant. Also, some orders require manual intervention due to their 8 complex nature or input error. To relegate nonrecurring cost development to a hypothetical world based on "the most efficient technology", regardless of its 9 10 deployment (or lack thereof) in BellSouth's network is inappropriate 11 12 Q. DR. ANKUM STATES THAT NONRECURRING COSTS CAN BE 13 **RECOVERED THROUGH RECURRING RATES (PAGE 43). FROM A** 14 **COST METHODOLOGY PERSPECTIVE, DO YOU AGREE?** 15 16 A. No. However, Dr. Ankum's statement that this Commission can rule that 17 nonrecurring costs be recovered through recurring rates is correct. The 18 Commission has that authority. However, from a cost methodology perspective, 19 costs should be stated as they naturally occur, i.e., if the costs are one-time 20 expenses it is appropriate to express them as nonrecurring. If it is an on-going cost, 21 then the appropriate way to express the cost is as a recurring cost. The operative 22 word in Dr. Ankum's statement is "recover". Recovery relates to rate structure 23 design, not cost development. 24

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1	Q.	DR. ANKUM VIRTUALLY ACCUSES BELLSOUTH OF DOUBLE
2		COUNTING NONRECURRING COSTS (PAGE 46) BY INCLUDING
3		THESE ONE-TIME COSTS BOTH AS RECURRING AND
4		NONRECURRING COSTS. IS HE CORRECT?
5		
6	Α.	No. Dr. Ankum states that if studies are "thoroughly scrutinized", "one is likely to
7		find many instances of such double counts." This is totally without substance.
8		BellSouth's nonrecurring costs reflect only the incremental cost of provisioning the
9		cost object (UNE, combination, or deaveraged element). Additionally, BellSouth
10		takes precautions to eliminate service order costs from the factor development for
11		factors that are utilized in developing recurring costs.
12		
13	Q.	ON PAGE 17 OF HIS TESTIMONY, MR. FALVEY ATTEMPTS TO
14		EQUATE NONRECURRING RATES FOR LOCAL LOOPS TO RETAIL
15		SERVICES. IS THIS AN APPROPRIATE COMPARISON?
16		
17	<b>A</b> .	No. This "apples-to-oranges" comparison is without merit. First, BellSouth does
18		not use unbundled loops, per se, to provide retail service. Retail service is an end-
19		to-end connection through the network. Thus, the inputs take that situation into
20		consideration and study assumptions include such things as the ability to test
21		without dispatch and limited travel. However, the nonrecurring costs associated
22		with an unbundled loop reflect those work activities required to provide a
23		connection from the network interface device ("NID") to the main distributing
24		frame ("MDF"). In this case, the assumptions are different, the work centers
25		involved are different and thus, the costs are different.

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1		
2		Mr. Falvey also states that the Commission should deny BellSouth the ability to
3		charge for order coordination. This is an optional offering BellSouth makes to
4		ALECs for coordination above-and-beyond the norm. Since this cost is purely
5		service order related, this issue should be addressed within the context of the
6		generic OSS docket. However, BellSouth believes this is a legitimate cost since
7		BellSouth incurs additional expense in providing order coordination.
8		
9	Q.	MR. FALVEY ALSO ASSERTS THAT THIS COMMISSION CAN USE
10		THE TRUNK PORT CHARGE AS A BENCHMARK FOR FRAME RELAY
11		COSTS. (PAGES 16-17) IS HIS OBSERVATION CORRECT?
12		
13	А.	No. Mr. Falvey fails to realize that the switch providing frame relay is entirely
14		different from the switch that provides local switching. The difference in
15		architecture, equipment, contracts, and discounts makes any comparison
16		meaningless. Additionally, the frame relay switch is based on packet technology,
17		whereas the end office switch is based on time-division-multiplexing technology.
18		
19	Q.	ON PAGE 13 OF HER TESTIMONY, MS. STROW ARGUES FOR
20		VOLUME AND TERM DISCOUNTS. ARE THESE APPROPRIATE?
21		
22	A.	No. Ms. Strow appears to base her argument for additional discounts on perceived
23		savings that BellSouth obtains from "economies of scale". However, BellSouth
24		already recognizes the only applicable "economies of scale" in developing costs for
25		UNEs. These savings only arise from differences in provisioning activities (and

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1	costs) when orders contain more than one element and thus only apply to
2	nonrecurring costs. This is reflected in the rate structure and the cost study that
3	supports the rates by differentiating between first and additional nonrecurring costs.
4	However, any additional reduction beyond this to nonrecurring rates and any
5	attempt to reduce recurring rates are unjustified for the following reasons:
6	
7	1) BellSouth does not receive additional material discounts beyond those
8	contained in the studies for deploying additional unbundled elements. Thus, there is
9	no room for providing an additional discount to others.
10	
11	2) The state commissions have ordered rates below what BellSouth filed. Thus,
12	BellSouth does not fully recover the incremental cost when selling unbundled
13	network elements. Any additional reduction beyond the mandated rates will only
14	compound the problem.
15	
16	3) Fulfillment of this request would obligate BellSouth to restudy the cost for
17	those customers not receiving volume and term discounts since the cost
18	methodology is currently based on a statewide average. This would exacerbate the
1 <b>9</b>	shortfall between BellSouth's cost and the state mandated rate even further.
20	
21	BellSouth witness, Mr. Varner, elaborates further on why volume and term
22	discounts are inappropriate in his rebuttal testimony.
23	
24	Q. SPRINT WITNESSES ADVOCATE THE DEAVERAGING OF LOCAL
25	LOOPS, LOCAL SWITCHING, AND INTEROFFICE TRANSMISSION

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### 000936

### 1 FACILITIES. DOES BELLSOUTH AGREE WITH THEIR

### 2 ASSESSMENT?

3

A. Not entirely. BellSouth agrees that the cost variation by geographic location makes
the local loop a candidate for further deaveraging. BellSouth witness, Mr. Varner,
discusses other issues that impact the timing of deaveraging in his rebuttal
testimony. Additionally, BellSouth witness, Mr. Jerry Hendrix, outlines
BellSouth's initial proposal for deaveraging.

9

10 Sprint witness, Mr. Dickerson, does an excellent job of explaining the causes of the 11 differences in loops found in various geographic locations on pages 4-7 of his 12 testimony. Note that most of these cost drivers are reflected in the physical characteristics of the loop and the placing costs associated with that loop: weather, 13 terrain, distance, and local market conditions. However, none of these factors 14 15 impact switching costs to any great degree. The last factor, customer density, also has little impact on switching costs since the modularity of digital switching 16 equipment allows BellSouth to grow switches as demand dictates. Also, remote 17 18 switch entities can be deployed to serve pockets of customers. One factor Mr. Dickerson fails to include in his discussion of the causes of variances in switching 19 costs is the vendor. The two dominant vendors, Lucent and Nortel, have different 20 switch architectures. The result is that the distribution between traffic sensitive 21 (\$/Minute of Use) and non-traffic sensitive (port) costs differs depending on the 22 23 vendor.

24

25 Additionally, switching cannot be viewed in the same manner as local loops because

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1		logically one cannot isolate one switch from the network. (Of course, as Mr.
2		Dickerson has shown, one can perform the mathematical exercise for individual
3		switches to do so. However, this ignores the interrelationships between the switch
4		entities.) The switch is a part of a total integrated network designed to handle a
5		call from the originating switch entity to the terminating switch entity. To segment
6		individual switches based on individual cost differences ignores the
7		interdependencies between switch entities. This is clearly a problem for remote
8		switches that are dependent on a host switch for interoffice call processing.
9		
10		The rate structure of the interoffice transport, i.e. \$/mile, already accounts for
11		geographic differences by eliminating the length from the equation. Thus, there is
12		no reason to include interoffice transport in the deaveraging scheme. Of course,
13		some of the physical attributes of the interoffice route will impact the costs just as
14		they do in the loop, e.g., the type of placement. However, because the cost is
15		expressed on a per unit (mile) basis these differences are negligible.
16		
17	Q.	MR. DICKERSON ALSO DISCUSSES OTHER UNES WHOSE COSTS
18		DON'T VARY DEPENDING ON LOCATION. DOES BELLSOUTH
19		AGREE WITH MR. DICKERSON'S ASSESSMENT?
20		
21	<b>A</b> .	Yes. Mr. Dickerson discusses the following: Network Interface Devices (NIDs),
22		Tandem Switching, Signaling Network and Service Management Systems, Call
23		Related Databases, Service Management Systems, Operations Support Systems
24		(OSS), and Operator Service and Directory Assistance. BellSouth agrees that the
25		costs associated with these categories of UNEs do not vary based on geographic

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### 000938

1 location and thus, should not be deaveraged.

2

# 3 Q. WITNESSES HAVE PROPOSED TIMEFRAMES FOR THE COST 4 STUDIES, PLEASE COMMENT.

5

A. The timeframes range from a low of 30 days (COVAD witness, Ms. Murray) to a 6 high of (at least) 120 days (GTE witness, Mr. Trimble). In my direct testimony I 7 proposed 120 days from the time this Commission issues an order to complete the 8 cost studies. At this point in time, however, it is difficult to estimate the amount of 9 time required to accomplish this task. All of the defining parameters, e.g., an 10 element list (unbundled, deaveraged, combined), documentation requirements, 11 number of geographic areas for deaveraging, retail service studies (if it is 12 determined that this needs to be done), and model requirements, will impact the 13 amount of time BellSouth needs. The proper time to establish the cost study due 14 date is after these issues have been resolved. 15

16

### 17 Q. YOU MENTIONED DOCUMENTATION AS A FACTOR IN THE

18 AMOUNT OF TIME BELLSOUTH WILL REQUIRE TO PRODUCE

19 THEIR COST STUDIES. SEVERAL OF THE WITNESSES PROPOSE

20 DOCUMENTATION STANDARDS. PLEASE PROVIDE YOUR

- 21 COMMENTS.
- 22

A. BellSouth respects the needs of this Commission to ascertain the validity of the cost
 studies presented by BellSouth. However, the requirements proposed by other
 witnesses in this docket are extreme and overly burdensome. BellSouth's cost study

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in Docket Nos. 960833-TP, 960846-TP, and 960916-TP was in excess of 2,000
pages. (This study did not even include the complete compliment of elements.) If
BellSouth was ordered to fully comply with the documentation specifications
requested, the result would cause the document to swell to over 10,000 pages, an
unmanageable document.

6

7 COVAD witness, Ms. Murray, out of all the witnesses, probably outlines the most 8 stringent set of requirements for documentation. She asserts that the studies need 9 to be accompanied by copies of contracts, methods and procedures, engineering 10 guidelines, names and titles of individuals providing inputs, and an explanation of 11 assumptions. (Pages 8-9, Murray Testimony) (It is interesting to note that Ms. 12 Murray also felt 30 days was sufficient to complete the studies. She wants the most 13 detail, in the least amount of time.) I have already addressed why BellSouth 14 believes it is inappropriate to require that contracts be included with the cost study. 15 As with the contracts, the additional information Ms. Murray requests contains proprietary information, can potentially be misinterpreted, and can be taken out-of-16 17 context. BellSouth is willing to work with this Commission to deliver all the 18 information it feels necessary to validate BellSouth's studies. However, the 19 enforcement of Ms. Murray's standards on a wholesale basis is unnecessary. 20 Q. YOU ALSO STATED MODEL REQUIREMENTS MAY IMPACT THE 21

## 22 COST STUDY DUE DATE. DO YOU HAVE COMMENTS ON WHAT 23 OTHER PARTIES WANT TO SEE IN THE COST MODELS?

24

25 A. Yes. On pages 38-40 of his testimony, Dr. Ankum provides a list of characteristics

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1	required of a cost model in addition to the underlying methodology. I have already
2	discussed the potential for disagreements in cost methodology. However, Dr.
3	Ankum's requests with respect to the workings of the models appear reasonable.
4	BellSouth's TELRIC Calculator <sup>®1</sup> complies with the following attributes:
5	1) The model is open for review.
6	2) The model is designed around a user-friendly interface. The current version of
7	the model reflects enhancements to the previous model.
8	3) Instructions are included for the loading and running of the model. Sensitivity
9	analyses can be conducted and stored as separate scenarios.
10	4) The underlying formulas, data, and computations are included within the model.
11	5) The user can modify critical assumptions and input.
12	
13	This Commission is familiar with the TELRIC Calculator <sup>®</sup> and approved it as a
14	viable model in Docket Nos. 960757-TP, 960833-TP, and 960846-TP.
15	
16	Q. DOES THIS CONCLUDE YOUR TESTIMONY?
17	
18	A. Yes.
19	
20	
21	
22	
23	
24	
25	<sup>1</sup> © 1997 BellSouth Corporation
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