Before the

FLORIDA PUBLIC SERVICE COMMISSION

ORIGINÁL

In re: investigation into the pricing of unbundled network elements.

Docket No. 990649-TP

Rebuttal Testimony

of

TERRY L. MURRAY

on behalf of

Covad Communications Company

and

Rhythms Links Inc.

September 10, 1999

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TABLE OF CONTENTS

I.	INTRODUCTION AND OVERVIEW
п.	THE COMMISSION SHOULD REJECT THE EFFORTS OF BELLSOUTH AND GTE TO PRESERVE THEIR MONOPOLY POWER BY DELAYING THE ADOPTION OF COST- BASED, DEAVERAGED RECURRING AND NON-RECURRING CHARGES FOR UNBUNDLED NETWORK ELEMENTS
	A. THE COMMISSION SHOULD TAKE PROMPT ACTION TO ESTABLISH TRULY FORWARD-LOOKING NON- RECURRING CHARGES
	B. THE COMMISSION SHOULD NOT DELAY THE ADOPTION OF COST-BASED, DEAVERAGED PRICES FOR UNBUNDLED NETWORK ELEMENTS TO ACCOMMODATE EITHER RETAIL RATE REBALANCING OR STATE ACTION ON UNIVERSAL SERVICE SUPPORT
111.	NEITHER "ACTUAL" (HISTORICAL) COSTS NOR "MARKET CONDITIONS" SHOULD PLAY ANY ROLE IN SETTING PRICES FOR UNBUNDLED NETWORK ELEMENTS AND COMBINATIONS. INSTEAD, THE COMMISSION SHOULD CONTINUE ITS POLICY OF SETTING NONDISCRIMINATORY PRICES BASED ON FORWARD- LOOKING ECONOMIC COSTS
IV.	THE COMMISSION SHOULD REJECT GTE'S PROPOSED DEAVERAGING
	ADJUSTMENT CHARGE
v.	THE COMMISSION SHOULD REJECT BELLSOUTH'S TWO-ZONE PROPOSAL FOR UNBUNDLED LOOPS AND RELY EXCLUSIVELY ON COSTS TO DETERMINE DEAVERAGED LOOP PRICES
VI.	THE COMMISSION SHOULD BE CONCERNED ABOUT THE EFFECT OF INCUMBENCY ADVANTAGES ON COMPETITION FOR ADVANCED SERVICES

1 REBUTTAL TESTIMONY OF TERRY L. MURRAY ON BEHALF OF 2 COVAD COMMUNICATIONS COMPANY AND RHYTHMS LINKS INC.

3 Q. Please state your name, title and business address.

- 4 A. My name is Terry L. Murray. I am President of the consulting firm Murray
- & Cratty, LLC. My business address is 227 Palm Drive, Piedmont, CA
 94610.

7 Q. Have you previously testified in this proceeding?

- 8 A. Yes, I filed direct testimony on behalf of Covad Communications Company
- 9 ("Covad") responding to the issues that the Commission posed in
- 10 Appendix A to Order No. PSC-99-1397-PCO-TP, with particular emphasis
- 11 on those issues that will affect the competitive offering of Digital
- Subscriber Line ("DSL") services. That testimony provides a summary of
 my qualifications and experience.

14

I.

- 15 Q. What is the purpose of your rebuttal testimony?

INTRODUCTION AND OVERVIEW

16 A. Covad and Rhythms Links Inc. ("Rhythms") have asked me to respond to

17 various issues raised in the direct testimony of BellSouth witnesses Ms.

- 18 Caldwell, Dr. Emmerson, Mr. Hendrix and Mr. Varner and GTE Florida,
- 19 Inc. ("GTE") witnesses Mr. Doane and Mr. Trimble. Where appropriate,
- 20 in responding to these witnesses, I will also identify areas in which my
- 21 positions are consistent with those taken in their direct testimony by Sprint

1	Communications Company L.P. ("Sprint") witness Mr. Sichter and
2	witnesses for various potential competitors.

Q. Will your rebuttal testimony address all the issues raised in the BellSouth and GTE testimonies?

No. A substantial portion of the voluminous BellSouth and GTE testimony 5 Α. deals with issues that are being addressed, or will be addressed, in other 6 proceedings before the Federal Communications Commission ("FCC") and 7 this Commission. For example, BellSouth devotes literally hundreds of 8 pages of testimony and attachments to the issue of whether various 9 unbundled network elements meet the "necessary and impair" test. The 10 FCC is currently addressing this issue on remand from the Supreme Court. 11 Therefore, rather than engage in a pointless debate about matters now 12 before the FCC, my rebuttal testimony will focus only on the issues this 13 Commission identified in Appendix A to Order No. PSC-99-1397-PCO-14 15 TP. I will note in passing, however, that the Commission should reject 16 BellSouth's suggestion for the Commission to compel competitors to provide business plan and cost data that BellSouth wishes to use in making 17 its arguments concerning the "necessary and impair" standard. The data 18 19 that BellSouth seeks are irrelevant to the determination of the incumbent's 20 forward-looking economic costs, which are the costs relevant to the issues 21 identified for this proceeding.

1		Similarly, I will not address testimony concerning specific cost
2		study input assumptions such as fill factor assumptions and labor rate
3		calculations that appear to be issues the Commission will take up in Phase
4		II of this proceeding. In this regard, I recommend that the Commission
5		hold over until Phase II any consideration of the methodology for
6		calculating shared and common cost factors described in the direct
7		testimony of BellSouth witness Mr. Reid. My review of his testimony
8	·	indicates areas in which I would agree with him conceptually and others in
9		which I have concerns about his approach based solely on the high-level
10		discussion that he has presented. It will be far simpler to resolve questions
11		concerning the merit of the new BellSouth approach to shared and
12		common costs when parties can review the company's cost studies to see
13		how it has actually applied the concepts Mr. Reid describes.
14	Q.	Please summarize your rebuttal testimony.
15	A .	The parties' proposals concerning the Phase I issues appear to follow
16		directly from their views of what the Commission's primary objective
17		should be in pricing unbundled network elements. They fall into two
18		distinct camps.
19		The first camp, which consists of BellSouth and GTE, apparently
20		believes that the Commission's primary goal should be to preserve the
21		status quo. To this end, both companies have proposed major delays in
22 •		adopting deaveraged prices and truly forward-looking non-recurring

1	charges for unbundled network elements, and GTE has proposed an
2	adjustment factor that would reconcile deaveraged prices for unbundled
3	network elements to retail prices minus the adopted resale discount.
4	The second camp, which includes all of the competitors as well as
5	Sprint, recommends that the Commission's primary goal should be the
6	establishment of cost-based prices. These parties recommend that the
7	Commission move forward with its efforts to deaverage costs, establish
8	truly forward-looking non-recurring costs and charges and ultimately set
9	prices for at least the deaveraged loop at Total Element Long Run
10	Incremental Cost ("TELRIC") plus a reasonable markup for shared and
11	"common" costs. The proposals that I set forth in my direct testimony fall
12	squarely into this second camp.
13	In the remainder of my rebuttal testimony, I will demonstrate that
14	the Commission should reject the BellSouth and GTE positions and instead
15	adopt positions consistent with those that I presented in my direct
16	testimony. I will make the following points:
17	• The Commission should reject the attempts of BellSouth and GTE
18	to preserve their monopoly positions by delaying the introduction of
19	non-recurring charges that truly reflect efficient, forward-looking
20	costs and deaveraged prices for all varieties of unbundled loops.
21	The BellSouth and GTE proposals would needlessly delay the time
22	when Florida consumers can obtain the full benefits of local
23	competition, including the innovative services that DSL providers

1	such as Covad and Rhythms can offer. Instead, the Commission
2	should move forward as rapidly as possible to implement cost-
3	based, competition-enhancing recurring and non-recurring prices
4	for the unbundled network elements at issue in this proceeding.
5	Expeditious determination of true forward-looking non-recurring
6	charges is especially important to DSL providers such as Covad and
7	Rhythms because the incumbents' high proposed non-recurring
8	charges relating specifically to DSL elements have yet to be
9	examined by this Commission.
10 •	The only factors that the Commission should consider in setting
11	deaveraged prices are forward-looking economic costs and, more
12	generally, nondiscrimination between the incumbent and new
13	entrants. In their direct testimony, BellSouth and GTE pay lip
14	service to the concept of prices based on forward-looking costs, but
15	their repeated emphasis on the need to recover "actual" costs
16	makes clear that both companies seek to overturn the pricing
17	policies that this Commission and the FCC have endorsed. The
18	Commission should give no consideration to "actual" costs (other
19	than "actual" forward-looking economic costs), "market
20	conditions" or any other non-cost-based factor in establishing prices
21	for unbundled network elements and combinations.
22 •	Specifically, the Commission should reject GTE's proposal for a
23	Deaveraging Adjustment Charge ("DAC"). This charge is

1	undesirable, unnecessary and unworkable. If adopted, it would
2	needlessly limit the ability of competitors to offer Florida
3	consumers innovative and cost-effective services using unbundled
4	network elements.

The Commission should also reject BellSouth's proposal for two-5 zone loop deaveraging based on its existing retail rate zones. The 6 proposal to base rates for these two zones on "market conditions" 7 is designed to preserve BellSouth's retail pricing structure, not to 8 9 implement cost-based prices. The Commission should base deaveraged prices on forward-looking costs and leave the 10 11 determination of the number of zones and the precise geographic basis for deaveraging to Phase II, where parties can make concrete 12 proposals based upon their review of company-specific cost data. 13 The Commission should give no weight to BellSouth's claims that it 14 15 possesses no competitive advantage for advanced services such as 16 DSL-based services. As I explained in my direct testimony, there 17 are incumbency advantages in the advanced services market. 18 Unless the Commission recognizes these incumbency advantages, 19 and designs appropriate unbundled network element pricing policies 20 to combat them, many Florida consumers may lack competitive 21 options for advanced services.

II. THE COMMISSION SHOULD REJECT THE EFFORTS OF BELLSOUTH AND GTE TO PRESERVE THEIR MONOPOLY POWER BY DELAYING THE ADOPTION OF COST-BASED, DEAVERAGED RECURRING AND NON-RECURRING CHARGES FOR UNBUNDLED NETWORK ELEMENTS.

Q. Both BellSouth and GTE have proposed that the Commission defer
acting on several of the issues within the scope of this proceeding (e.g.,
establishment of new non-recurring charges and geographically
deaveraged prices for unbundled network elements) until this
Commission, the FCC and the Florida legislature have taken action to
resolve other, allegedly related issues. What is your general reaction
to the proposals for delay?

13 Delay is a tactic that serves the private interests of BellSouth and GTE as Α. 14 incumbent local exchange providers that still hold a near-monopoly 15 position in their respective local markets, but harms the public interest in 16 Florida. The pricing issues that the Commission has identified for this 17 proceeding must be resolved before Florida consumers can enjoy all of the 18 price and service quality benefits of local exchange competition. Rhythms 19 witness Mr. Geis explains in his concurrently filed rebuttal testimony that 20 providers of DSL-based services such as Rhythms and Covad cannot 21 provide a full range of competitive offerings in Florida until they are 22 assured that they will be able to obtain needed elements such as DSL-

1		capable loops and transport from the incumbents at reasonable, cost-based
2		recurring and non-recurring prices. Any delay in establishing such prices
3		means that many Florida consumers may be deprived of an alternative to
4		the limited range of DSL offerings that BellSouth and GTE are making
5		available to their customers.
6 7		A. The Commission Should Take Prompt Action to Establish Truly Forward-Looking Non-Recurring Charges.
•		
8	Q.	GTE witness Mr. Trimble proposes at page 30 of his direct testimony
9		that the Commission defer any consideration of non-recurring charges
10		until the conclusion of the parallel docket addressing Operations
11		Support Systems ("OSS"). Do you agree?
12	Α.	No, I do not. I do agree with Mr. Trimble that the nature of the assumed
13		OSS can have a material effect on the estimated non-recurring costs
14		associated with unbundled network elements, particularly costs for pre-
15		ordering and ordering. Calculating forward-looking non-recurring costs,
16		however, does not typically require the level of operational detail with
17		which the Commission and the parties will be concerned in the OSS
18		docket. Instead, one need only assume the general properties of efficient,
18 19		docket. Instead, one need only assume the general properties of efficient, forward-looking OSS to determine an appropriate level of non-recurring
19		forward-looking OSS to determine an appropriate level of non-recurring

details of, e.g., when such OSS will be ubiquitously deployed within the
 incumbents' networks.

Moreover, some non-recurring costs (including the costs that 3 underlie proposed "line conditioning" charges of great significance to 4 5 potential DSL competitors such as Covad and Rhythms) do not depend a 6 great deal on assumptions concerning OSS. Instead, these non-recurring 7 costs depend critically on the assumptions about the forward-looking 8 design of the network on which forward-looking *recurring* charges are 9 based. To estimate these non-recurring costs correctly, and to ensure that 10 high interim non-recurring charges do not delay the rollout of competitive 11 services, the Commission should review both recurring and non-recurring 12 costs in the same docket.

Q. Does consideration of recurring and non-recurring costs in the same
 docket automatically ensure proper coordination between the
 estimation of these two types of costs?

16 A. No, it simply provides the opportunity for such coordination.

Unfortunately, the *ad hoc* approach to developing non-recurring costs that
BellSouth witness Ms. Caldwell describes at page 17 of her direct

19 testimony reveals that the incumbents will not systematically establish a

- 20 consistent set of network design assumptions for recurring and non-
- 21 recurring costs unless the Commission forces them to do so. Such
- 22 consistency is essential because telecommunications networks are

1		engineered to minimize total costs, recurring and non-recurring, for the
2		entire scope of services that those networks provide. The best way to
3		reflect the "actual" forward-looking economic costs that the incumbents
4		would incur to provide unbundled network elements is to require a unified
5		set of recurring and non-recurring cost studies for a network designed to
6		provide both basic exchange services and advanced services such as DSL-
7		based services. Thus, the Commission should unequivocally reject Ms.
8		Caldwell's suggestion at page 7 of her direct testimony that the forward-
. 9		looking network could differ depending on the combination of elements to
10		be provided, and should instead make clear that the forward-looking
11		network design assumptions should be consistent across all cost studies.
12	Q.	Can you provide a specific example of the problems that may arise if
12 13	Q.	the incumbents do not provide a unified set of recurring and non-
	Q.	
13	Q.	the incumbents do not provide a unified set of recurring and non-
13 14	Q. A.	the incumbents do not provide a unified set of recurring and non- recurring cost studies for a network designed to provide both basic
13 14 15	-	the incumbents do not provide a unified set of recurring and non- recurring cost studies for a network designed to provide both basic and advanced services?
13 14 15 16	-	the incumbents do not provide a unified set of recurring and non- recurring cost studies for a network designed to provide both basic and advanced services? Yes. My direct testimony alluded to the high non-recurring charges that
13 14 15 16 17	-	the incumbents do not provide a unified set of recurring and non- recurring cost studies for a network designed to provide both basic and advanced services? Yes. My direct testimony alluded to the high non-recurring charges that BellSouth has proposed for what it calls an Unbundled Copper Loop
13 14 15 16 17 18	-	 the incumbents do not provide a unified set of recurring and non- recurring cost studies for a network designed to provide both basic and advanced services? Yes. My direct testimony alluded to the high non-recurring charges that BellSouth has proposed for what it calls an Unbundled Copper Loop ("UCL"). As I stated in that testimony, BellSouth has proposed a monthly
13 14 15 16 17 18 19	-	 the incumbents do not provide a unified set of recurring and non- recurring cost studies for a network designed to provide both basic and advanced services? Yes. My direct testimony alluded to the high non-recurring charges that BellSouth has proposed for what it calls an Unbundled Copper Loop ("UCL"). As I stated in that testimony, BellSouth has proposed a monthly recurring charge of \$21 and a non-recurring charge of \$450 <i>plus</i> individual

1	Assessment of the appropriateness of the non-recurring charges for
2	this DSL-capable loop will depend critically on an understanding of the
3	network design assumed in developing the monthly recurring charge. If the
4	recurring charges are based on a network design that does not include any
5	equipment or excessive bridge tap that would interfere with the provision
6	of DSL-based services, then there is no justification for "special
7	construction" charges (a form of "line conditioning" charge) to remove that
8	equipment. This would be true even if the embedded plant in BellSouth's
9	existing network includes excessive bridge tap or equipment such as load
10	coils and repeaters that BellSouth must physically remove to make a loop
11	DSL-capable. Both recurring and non-recurring charges for unbundled
12	network elements must be based on a consistent network design to avoid
13	over- or undercharging for those elements because the cost-minimizing
14	solution to network design often involves tradeoffs between the kinds of
15	costs that are traditionally classified as recurring and non-recurring.
16	This concern is not merely a hypothetical one. I have participated
17	in several proceedings in which non-recurring charges for DSL-capable
18	loops have been at issue, but the cost basis for recurring charges had been
19	determined in a prior proceeding. In most cases, the record in the
20	recurring cost proceeding did not provide sufficient detail to determine
21	with certainty whether the approved recurring charges already incorporated
22	the costs that the incumbent was now seeking to recover through non-
23	recurring charges. Moreover, there was no opportunity to ensure that the

1		network design assumptions would minimize total recurring and non-
2		recurring costs, even if a particular assumption might result in a slight
3		increase in recurring costs.
4		To avoid these problems, and to ensure that the high non-recurring
5		charges that BellSouth has proposed for DSL-capable loops do not
6		unreasonably retard competition for advanced services in Florida, the
7		Commission should consider both recurring and non-recurring costs in
8		Phase II of this proceeding.
9		B. The Commission Should Not Delay the Adoption of Cost-
10		Based, Deaveraged Prices for Unbundled Network Elements to
11		Accommodate Either Retail Rate Rebalancing or State Action
12		on Universal Service Support.
12		on Universal Service Support.
12 13	Q.	on Universal Service Support. Should the Commission delay cost-based pricing of unbundled
	Q.	
13	Q.	Should the Commission delay cost-based pricing of unbundled
13 14	Q .	Should the Commission delay cost-based pricing of unbundled network elements until it adopts retail rate rebalancing, as both
13 14 15	Q.	Should the Commission delay cost-based pricing of unbundled network elements until it adopts retail rate rebalancing, as both BellSouth witness Mr. Varner and GTE witness Mr. Trimble
13 14 15 16	Q.	Should the Commission delay cost-based pricing of unbundled network elements until it adopts retail rate rebalancing, as both BellSouth witness Mr. Varner and GTE witness Mr. Trimble recommend at pages 29 and 30, respectively, of their direct
13 14 15 16 17	·	Should the Commission delay cost-based pricing of unbundled network elements until it adopts retail rate rebalancing, as both BellSouth witness Mr. Varner and GTE witness Mr. Trimble recommend at pages 29 and 30, respectively, of their direct testimonies?
13 14 15 16 17 18	·	Should the Commission delay cost-based pricing of unbundled network elements until it adopts retail rate rebalancing, as both BellSouth witness Mr. Varner and GTE witness Mr. Trimble recommend at pages 29 and 30, respectively, of their direct testimonies? No, it should not. Both BellSouth and GTE have elected to operate under
13 14 15 16 17 18 19	·	Should the Commission delay cost-based pricing of unbundled network elements until it adopts retail rate rebalancing, as both BellSouth witness Mr. Varner and GTE witness Mr. Trimble recommend at pages 29 and 30, respectively, of their direct testimonies? No, it should not. Both BellSouth and GTE have elected to operate under the price regulation scheme adopted by the Florida legislature in 1995.

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1		GTE to realign their retail price structures with cost is to exercise this
2		pricing flexibility, not for the Commission to delay properly deaveraged
3		pricing of unbundled loops (and, potentially, other elements) until it can
4		complete a protracted retail rate rebalancing proceeding.
5	Q.	Should the Commission defer consideration of geographic
6		deaveraging until the Florida legislature has taken action on universal
7		service support, as both Mr. Varner and Mr. Trimble also suggest in
8		their direct testimonies at pages 31 and 19 respectively?
9	A .	No. Geographically deaveraged prices for unbundled network elements
10		will not undermine the incumbents' ability to provide universal service. To
11		the contrary, geographically deaveraged prices can prevent uneconomic
12		bypass of the incumbents' local networks and thereby enhance the
13		incumbents' ability to provide universal service.
14		Consider the build-vsbuy decision a new entrant makes when it
15		confronts a statewide-average price for an element that has strong
16		geographic variations in cost. The new entrant will have an incentive to
17		build its own facilities in low-cost areas, even though the true economic
18		cost of the incumbent's facilities in the same geographic area may be less
19		than the cost the new entrant would incur to build duplicative facilities.
20		The incumbent is less able to recover its efficient, forward-looking costs
21		when averaged pricing creates an incentive for uneconomic bypass, which
22		reduces its ability to support universal service.

III. NEITHER "ACTUAL" (HISTORICAL) COSTS NOR "MARKET CONDITIONS" SHOULD PLAY ANY ROLE IN SETTING PRICES FOR UNBUNDLED NETWORK ELEMENTS AND COMBINATIONS. INSTEAD, THE COMMISSION SHOULD CONTINUE ITS POLICY OF SETTING NONDISCRIMINATORY PRICES BASED ON FORWARD-LOOKING ECONOMIC COSTS.

7 Q. What objective should the Commission pursue in pricing unbundled 8 network elements?

Consistent with the pro-competitive goal of the Telecommunications Act 9 Α. of 1996 ("Act") and of this Commission, the Commission should price 10 unbundled network elements to maximize the opportunity for competitive 11 12 entry in all market segments of the local exchange market in Florida. In making this statement, I do not mean that the Commission should 13 14 deliberately favor entry via unbundled network elements over any other 15 form of competitive entry, including the operations of the incumbent local exchange carriers. Instead, I mean that the Commission should set prices 16 17 for unbundled network elements that comply with the pricing standards of 18 the Act — that is, prices for unbundled network elements should be cost-19 based and nondiscriminatory (see § 251(d)(1) of the Act). Once the 20 Commission has established such prices, it should let the market determine 21 the success or failure of entry via unbundled network elements versus other 22 competitive strategies.

1

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Q.

As an economist, how do you interpret the nondiscrimination /

A. To give meaning to the pro-competitive purposes of the Act, I can only
interpret the nondiscrimination standard to mean that *all* competitors —
incumbents and new entrants alike — should be treated in a competitively
neutral manner. This interpretation implies that the price the incumbent
charges new entrants for unbundled network elements should equal the
implicit price that the incumbent charges to itself when it uses the same
functionality to provide retail services.

When an incumbent uses the functionality of unbundled network 10 elements to provide retail services, the effective "price" that it pays is the 11 12 forward-looking economic cost for the functionality used to provide that 13 retail service. In this context, forward-looking economic cost equates to what the FCC calls TELRIC. Any price for the unbundled network 14 15 element that exceeds this cost is discriminatory because it makes the cost to 16 the new entrant greater than the cost to the incumbent for use of the same 17 functionality. In fact, short of location-specific pricing of unbundled 18 network elements, there will inevitably be at least some discrimination 19 between incumbents and new entrants in the pricing of the functionality of 20 elements such as the loop that exhibit significant geographic variations in 21 costs. Thus, the FCC's requirements that prices for unbundled network 22 elements be based on forward-looking economic cost and be

1		geographically deaveraged have a solid foundation in an economic
2		interpretation of the Act's nondiscrimination standard for pricing.
3	Q.	Are the BellSouth and GTE proposals consistent with your
4		recommended approach to costing and pricing of unbundled network
5		elements?
6	A.	No. BellSouth and GTE do not propose to rely strictly on the Act's cost-
7		based, nondiscriminatory pricing standards for pricing unbundled network
8		elements and then let the chips fall where they may. Instead, BellSouth and
9		GTE seek to achieve a particular competitive outcome, namely, the
10		preservation of the status quo in which the incumbents retain a near-
iı		monopoly position in most segments of the local exchange market. The
12		Commission should reject these proposals and instead take timely steps to
13		implement deaveraged prices for at least unbundled loops that reflect
14		geographic variations in forward-looking economic costs and truly
15		forward-looking non-recurring charges for all elements that reflect
16		efficient, modern OSS and other forward-looking network design
17		assumptions.
18	Q.	Various witnesses for both BellSouth and GTE admonish the

Commission that it must be careful to base any prices established for
unbundled network elements in this proceeding on the incumbents'
"actual" costs, rather than some sort of "hypothetical" cost. Is this an

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important consideration for the development of cost studies in this proceeding?

4All too often, incumbents attempt to set up a distinction between "actual"5and "hypothetical" costs as a backdoor approach to relying on embedded,6rather than forward-looking, costs. Both the BellSouth and GTE direct7testimonies reveal the two companies' intention to abandon the forward-8looking economic cost approach that this Commission and the FCC have9consistently endorsed. For example, BellSouth witness Mr. Varner in a10single written "breath" at page 18 of his direct testimony links the need for11prices to recover actual costs with a concern about the consequences of12prices that do not compensate the incumbent for its shared, common and13historical costs, in addition to its incremental costs. GTE witness Mr.14Trimble provides a similar, although less explicit, linkage when he states at15page 27 of his direct testimony:16The sum of the proposed prices for retail services17must provide a reasonable opportunity to recover the18ILEC's actual costs; thus, the sum of the proposed prices19for UNEs should also equal the ILEC's actual costs (less20any avoided retailing expenses).	3	A .	No, at least not in the sense that BellSouth and GTE almost certainly mean.
6 rather than forward-looking, costs. Both the BellSouth and GTE direct 7 testimonies reveal the two companies' intention to abandon the forward- 8 looking economic cost approach that this Commission and the FCC have 9 consistently endorsed. For example, BellSouth witness Mr. Varner in a 10 single written "breath" at page 18 of his direct testimony links the need for 11 prices to recover actual costs with a concern about the consequences of 12 prices that do not compensate the incumbent for its shared, common and 13 historical costs, in addition to its incremental costs. GTE witness Mr. 14 Trimble provides a similar, although less explicit, linkage when he states at 15 page 27 of his direct testimony: 16 The sum of the proposed prices for retail services 17 must provide a reasonable opportunity to recover the 18 ILEC's actual costs; thus, the sum of the proposed prices 19 for UNEs should also equal the ILEC's actual costs (less	4		All too often, incumbents attempt to set up a distinction between "actual"
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19 for UNEs should also equal the ILEC's actual costs (less	17		must provide a reasonable opportunity to recover the
	18		ILEC's actual costs; thus, the sum of the proposed prices
20 any avoided retailing expenses).	19		for UNEs should also equal the ILEC's actual costs (less
	20		any avoided retailing expenses).

Because GTE's retail prices reflect the legacy of rate designs structured to
 recover an embedded cost revenue requirement, Mr. Trimble's proposed

1	rule would have the effect of setting prices for unbundled network elements
2	to recover actual historical costs.

3	The Commission should reject the BellSouth and GTE "actual" cost
4	proposals because they are thinly veiled disguises for pricing policies based
5	on embedded or historical costs. Both economic theory and the pricing
6	rules for unbundled network elements embodied in the Act and the FCC's
7	First Report and Order preclude reliance on embedded costs.
8	Economic theory suggests that the Commission's goal in this
9	proceeding should be to price unbundled network elements to emulate the
10	outcome that would occur if those elements were offered in a competitive
11	market. Competitive markets base prices on forward-looking costs, not
12	embedded costs.
13	Consistent with this theory, $ 251(d)(1)(A) $ of the Act explicitly
14	precludes the use of costs from a rate-of-return or other rate-based
15	proceeding for setting prices for unbundled network elements. Rate-base,
16	rate-of-return regulation relies on embedded or historical costs; thus, the

17 Act's prohibition on the use of rate-of-return-type costs implicitly

18 mandates use of forward-looking costs.
19 The FCC reached the same conclusion in its

19The FCC reached the same conclusion in its First Report and20Order, where it established pricing rules that implemented the Act. Section2151.505(d) of the FCC's rules clearly states that prices for unbundled22network elements may not be based on historical or embedded costs.

1	Q.	At page 26 of his direct testimony, BellSouth witness Dr. Emmerson
2		suggests that prices in competitive markets do not fall to the lowest
3		cost of any efficient provider. Does his discussion of competitive
4		market pricing change your conclusions about the desirability of using
5		"actual" company-specific costs that include certain embedded costs?
6	А.	No, it does not. I agree with Dr. Emmerson that prices in competitive
7		markets equal the cost of the "marginal" unit sold (the last, most expensive
8		unit sold), but I disagree with the manner in which he attempts to apply this
9		observation to the case of unbundled network element pricing. The
10		economic theory of competitive markets assumes that each producer is
11		operating efficiently, given the scale and scope of its operations, and the
12		supply curve used in competitive market analysis reflects incremental or
13		forward-looking costs. Thus, the relevant cost in Dr. Emmerson's example
14		is the long-run incremental cost associated with the marginal unit of output
15		from the marginal producer, not the embedded cost of some hypothetical
16		"least-efficient" producer. The TELRIC methodology is a reasonable
17		measure of that cost if the incumbent is the marginal producer; it overstates
18		the cost on which competitive prices would be based if a new entrant is the
19		marginal producer.
20		The TELRIC methodology measures the unit cost of output
21		assuming that the incumbent produces the entire quantity demanded, which
22		would be the case if the incumbent were the marginal supplier. TELRIC is

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not the lowest possible cost achievable by a producer supplying the entire

1		market demand; instead, it reflects the constraints imposed by the number
2		and location of the incumbent's existing wire centers. Telecommunications
3		cost analysts widely agree that a "greenfield" approach to costing would
4		result in fewer switches and wire centers than the incumbents deploy today,
5		and thus lower costs.
6		A new entrant with less than a 100% market share could become
7		the supplier of the marginal unit of output if the cost savings it could
8		achieve via a "greenfield" approach to network design outweighed the loss
9		of scale and scope economies that the incumbent possesses. If this were
10		the case, the cost that the new entrant experienced to provide the marginal
11		unit of output would be less than the cost that the TELRIC methodology
12		measures.
13	Q.	BellSouth witness Ms. Caldwell points to \P 685 of the FCC's First
14		Report and Order in support of the use of "actual expected costs."
15		Does this testimony comport with your understanding of the FCC's
16		costing and pricing rules?
17	A .	No, it does not. At page 5 of her direct testimony, Ms. Caldwell cites \P
18		685 as implicit support for the view that it is appropriate to base costs on
19		the mixture of technologies that BellSouth will actually deploy in the
20		future:
21		An important question to be answered in

ì	deployed in the future, not what is the most forward-
2	looking technology. The other parties usually advocate that
3	only a flash-cut approach to the latest and greatest design
4	will fulfill the FCC's mandates. However, this is not the
5	case. BellSouth's network is a mix of old and new
6	technologies and BellSouth will continue to deploy older
7	technologies where it makes economic sense to do so.
8	To the extent that BellSouth's future technology mix departs from the
9	least-cost, most-efficient technology available for deployment, it has no
10	place in a TELRIC study. The FCC concludes the very paragraph that Ms.
11	Caldwell cites, ¶ 685, with a finding that costs should " assume that wire
12	centers will be placed at the incumbent LEC's current wire center
13	locations, but that the reconstructed local network will employ the most
14	efficient technology for reasonably foreseeable capacity requirements." I
15	cannot square the FCC's notion of reconstructing the network assuming
16	the most efficient technology with Ms. Caldwell's reading that forward-
17	looking cost studies should assume whatever technology the incumbent
18	plans to deploy. Moreover, §51.505(b)(1) of the pricing rules that the FCC
19	adopted pursuant to its First Report and Order seems to rule out Ms.
20	Caldwell's interpretation. The FCC ruled that:
21	The total element long-run incremental cost of an
22	element should be measured based on the use of the most
23	efficient telecommunications technology currently available

1		and the lowest cost network configuration, given the
2		existing location of the incumbent LEC's wire centers.
3		This rule gives no weight whatsoever to the incumbent's actual technology
4		deployment decisions.
5	Q.	Is it your position, then, that prices must be based on purely
6		"hypothetical" costs?
7	А.	No, it is not. Prices should be based on "actual" (that is, company-specific)
8		forward-looking economic costs that take into consideration the existing
9		location of the incumbent's wire centers, the physical constraints in the
10		incumbent's service territory (e.g., location of roads, major bodies of water
11		and other factors that influence the layout of physical plant), and the
12		physical and temporal distribution of demand. The Commission cannot and
13		should not, however, assume that the incumbents' actual network design
14		and technology decisions are efficient or forward-looking, as Ms. Caldwell
15		and other BellSouth and GTE witnesses seem to imply.
16	IV.	THE COMMISSION SHOULD REJECT GTE'S PROPOSED
17		DEAVERAGING ADJUSTMENT CHARGE.
18	Q.	GTE has advocated that the Commission establish a Deaveraging
19		Adjustment Charge to avoid arbitrage between geographically
20	-	deaveraged prices for unbundled network elements and the prices for

1 GTE's retail services. How would GTE's Deaveraging Adjustment 2 Charge work? 3 At page 13 of his direct testimony, GTE witness Mr. Doane states that the Α. 4 Deaveraging Adjustment Charge would equal the retail price of a GTE service minus the relevant resale discount minus the cost of the unbundled 5 6 network elements required to provide that service. This definition is 7 algebraically the equivalent of saying that the Deaveraging Adjustment 8 Charge would be the difference between the pricing of unbundled network 9 elements and the pricing of bundled wholesale services (*i.e.*, total service 10 resale). (See also Mr. Doane's direct testimony at page 12.) 11 In other words, the Deaveraging Adjustment Charge would 12 effectively make competition via unbundled network elements no different 13 from competition via total service resale. Under these conditions, the only 14 competitive pressure that a new entrant using unbundled network elements could bring to bear on GTE's retail prices would be to prevent GTE from 15 16 recovering inefficient retailing costs through its retail prices. This cannot 17 be all that Congress intended to achieve by requiring incumbents to offer 18 both unbundled network elements and total service resale, subject to two 19 distinct pricing standards.

Q. Is the primary function of GTE's proposed Deaveraging Adjustment Charge the need to address some consequence that flows directly from

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this Commission's decision to consider deaveraged pricing of unbundled network elements?

No. The Deaveraging Adjustment Charge has nothing to do with 3 Α. deaveraging per se and everything to do with protection of GTE's 4 revenues. The suggestion at page 26 of GTE witness Mr. Trimble's direct 5 testimony to apply the same charge to facilities-based competitors that do 6 not even purchase GTE's unbundled network elements makes this 7 abundantly clear. GTE's position vis-à-vis facilities-based carriers will not 8 9 change as a result of deaveraging prices for unbundled network elements. 10 GTE simply wants to avoid what its witnesses repeatedly describe as cream-skimming. 11

12 Unfortunately for GTE, the Act's cost-based, nondiscriminatory 13 pricing standard for unbundled network elements leaves no wiggle room for pricing mechanisms designed to provide implicit subsidy support for 14 specific services. Also, § 51.505(d) of the FCC's pricing rules explicitly 15 16 prohibits the consideration of the Efficient Component Pricing Rule, which 17 is precisely the differential pricing strategy described at page 10 of the 18 article by Professor Baumol attached as Exhibit MJD-2 to Mr. Doane's 19 testimony and identified by Mr. Doane at page 9 of his testimony as being 20 his deaveraging proposal.

Q. Should the Commission link the prices for unbundled network elements to the prices of the bundled wholesale services that GTE

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offers, as would occur under GTE's Deaveraging Adjustment Charge proposal?

3 A. No. Linking the prices for unbundled network elements to the prices for
4 bundled wholesale services is undesirable, unnecessary and unworkable.

5 Q. Why is it undesirable to link prices for unbundled network elements 6 to the prices of bundled wholesale services?

7 Setting the effective price for unbundled network elements equal to the Α. 8 price of total service resale is undesirable because it would severely reduce 9 the pressure on GTE to exercise its pricing flexibility to reduce its retail 10 prices to cost. To the extent that prices for unbundled network elements 11 are set at forward-looking economic costs, new entrants purchasing those 12 elements can put pressure on all of the incumbent's above-cost retail prices. A more efficient pricing structure, in turn, will benefit all Florida consumers 13 by promoting efficient resource allocation and encouraging consumption of 14 services that today's above-cost prices inefficiently deter. Thus, the 15 "arbitrage" that Mr. Doane decries is actually desirable because it promotes 16 17 cost-based pricing.

18 Q. Why is it unnecessary to link prices for unbundled network elements 19 to the prices of bundled wholesale services?

A. Contrary to several statements in the direct testimonies of GTE witnesses
 Mr. Trimble and Mr. Doane, there is no need to protect above-cost retail
 prices to provide an implicit subsidy to targeted below-cost retail services

1	such as residential local exchange service. The current schedule for this
2	proceeding is unlikely to produce final deaveraged prices until some time in
3	2001, approximately five years after the passage of the Act. GTE and
4	other incumbent local exchange carriers will have had ample time to rid
5	themselves of inefficient costs that are relics of a pre-competitive era and to
6	bring their cost structure more closely in line with efficient, forward-
7	looking economic costs. The FCC will have completed its review of any
8	remaining need for a subsidy for specific targeted services such as
9	residential local exchange service and will have implemented its
10	competitively neutral universal service support mechanism. Thus, there is
11	no reason for the Commission to adopt the kind of mechanism that GTE
12	proposes.
13	Furthermore, at page 11 of his direct testimony, GTE witness Mr.
14	Doane freely admits that his Deaveraging Adjustment Charge proposal is a
15	second-best solution "required to preserve competitive neutrality in an
16	environment in which retail prices contain implicit support." There is no
17	need for such a second-best solution when GTE has the option pursuant to
18	Commission Order PSC-95-1592-FOF-TP to seek the first-best solution
19	explicit universal service support - if it can demonstrate that such support
20	is necessary. If GTE can make the requisite showing that there is an
21	immediate need for explicit universal service support as a result of losses
22	attributable to competition, it should do so and ask for interim, company-
23	specific universal service support. The Commission should not even

- consider departing from cost-based pricing of unbundled network elements
 when GTE has failed to request explicit universal service funding under the
 terms of Order PSC-95-1592-FOF-TP.
- 4 Q. Why is it unworkable to link prices for unbundled network elements
 5 to the prices of bundled wholesale services?

6 Α. Attempting to avoid arbitrage between prices for unbundled network 7 elements and prices for bundled wholesale services is unworkable because there are multiple prices for bundled wholesale services that use the same 8 9 or nearly the same combinations of unbundled network elements. To 10 address this problem, GTE has proposed a cumbersome approach in which 11 the Deaveraging Adjustment Charge varies according to the retail service 12 for which the new entrant purchases unbundled network elements. This 13 solution is much more complicated than GTE's testimony implies because a 14 competitor may use a given element or combination of elements to provide 15 several retail services (e.g., basic exchange service, advanced services such 16 as DSL-based services, vertical services and access for toll services). GTE would need to know the exact services that the competitor is providing and 17 18 the volumes of each service being provided to calculate the Deaveraging 19 Adjustment Charge correctly. Such information on customer demand 20 patterns is competitively sensitive. Moreover, the mix of services and the 21 volumes for each service could vary from month to month, necessitating

complex and contentious recalculations of the Deaveraging Adjustment Charge.

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In addition, GTE's resale prices can and will change as GTE 3 exercises its pricing flexibility for retail services, making it even more 4 impossible to peg prices for unbundled network elements to any particular 5 6 bundled wholesale price. GTE's proposed formula for its Deaveraging Adjustment Charge would require the Commission to reevaluate unbundled 7 network element prices whenever any retail price or the resale avoided cost 8 discount changes. Thus, if GTE were to use the retail pricing flexibility it 9 enjoys under price regulation, the Commission would need to redetermine 10 11 the Deaveraging Adjustment Charge for purchasers of unbundled network 12 elements used to provide the newly priced retail services.

V. THE COMMISSION SHOULD REJECT BELLSOUTH'S TWO ZONE PROPOSAL FOR UNBUNDLED LOOPS AND RELY
 EXCLUSIVELY ON COSTS TO DETERMINE DEAVERAGED
 LOOP PRICES.

Q. BellSouth witness Mr. Hendrix proposes that the Commission divide
the company's existing retail price zones into two groups and use
those groupings as the basis for establishing geographically
deaveraged prices for unbundled network elements. Is this proposal
consistent with the cost-based, nondiscriminatory pricing standards of
the Act, as you understand them?

1	А.	No. Mr. Hendrix states at page 6 of his direct testimony that deaveraged
2		prices should be based on "market conditions" rather than cost and would
3		differ depending on the extent of competition within an area. Thus, it
4		appears that any correspondence between forward-looking economic cost
5		and BellSouth's methodology for setting deaveraged loop prices would be
6		purely coincidental. I know of nothing in the Act or the FCC's pricing
7		rules that would permit "market conditions" to be used as the basis for
8		pricing unbundled network elements. To the contrary, as Mr. Hendrix
9		admits on that same page, the FCC's pricing rules require states to set
10		deaveraged prices "in defined geographic areas within the state to reflect
11		geographic cost differences." BellSouth's proposal to establish market-
12		based prices in zones based on its existing retail rate groups is inconsistent
13		with the clearly stated FCC requirement for geographic deaveraging and
14		would function solely to preserve BellSouth's competitive position and
15		existing retail rate structure.

16 Q. On a more general level, BellSouth, GTE and Sprint all propose that deaveraging be based on wire-center-level costs, although GTE 17 implies it might be acceptable to consider some deaveraging below the 18 wire-center level. What is your reaction to their proposals? 19 20 As GTE witness Mr. Trimble explains at pages 11 and 12 of his direct А. testimony, there can be significant differences in loop costs within wire 21 centers. I would expect Mr. Trimble's conclusion to hold for the other 22

1		incumbents as well. Thus, the Commission should require the incumbents
2		to provide cost studies at a level of detail that would permit deaveraging
3		below the wire-center level (e.g., as GTE suggests, for long vs. short loops
• 4		within wire centers). The Commission and the parties will be better able to
5		decide the appropriate level of deaveraging after review of the cost data,
6		not before. The incumbents should not construct their cost studies in a
7		manner that precludes useful analysis of within-wire-center cost variations.
8	Q.	Should the Commission adopt a specific rule or guideline for the
9		determination of the geographic zones, such as the proposal at pages
10		14 and 15 of the direct testimony of Sprint witness Mr. Sichter to
11		design geographic zones "such that the average rate in each zone is no
12		more than 20% higher or 20% less than the forward-looking cost of
13		providing that element"?
14	А.	Not at this time. I agree with the spirit of Mr. Sichter's proposal to
15		establish geographic pricing zones that minimize the cost variations within
16		zones; however, I am concerned that any specific rule adopted prior to
17		review of the cost studies could be counterproductive. In prior reviews of
18		cost studies, I have found that there are natural breakpoints in the
19		distribution of costs that serve as ideal points of demarcation for identifying
20		the optimal structure of deaveraged prices. In the same cost studies,
21		however, there are also ranges over which there is no obvious breakpoint,
22		yet the cost variation from the lowest cost area to the highest cost area is

1	much greater than 20 percent. Determining the optimal number and
2	definition of the geographic pricing zones within this range becomes an art
3	as well as a science, requiring the analyst to trade-off the precision of the
4	cost-based pricing signal against the ease of billing and administration of
5	the resultant prices. Based on this experience, I suggest that the
6	Commission endorse the underlying principle of Mr. Sichter's proposal, but
7	defer determination of any specific rule for geographic deaveraging to
8	Phase II.

9 VI. THE COMMISSION SHOULD BE CONCERNED ABOUT THE 10 EFFECT OF INCUMBENCY ADVANTAGES ON COMPETITION 11 FOR ADVANCED SERVICES.

- Q. BellSouth witness Mr. Varner argues that the company has no
 competitive advantages in the market for advanced services such as
 DSL-based services. Is he correct?
- No. As I explained in my direct testimony, BellSouth is able to leverage its 15 Α. near-monopoly position in the local exchange voice market to gain a 16 competitive advantage in the market for DSL-based services. It does so by 17 providing Asymmetric Digital Subscriber Line ("ADSL") service over the 18 same loop that it uses to provide voice service to a customer. This line-19 sharing approach allows BellSouth to recover all of its loop costs from the 20 underlying voice service and eliminates the need for the company to 21 recover any of its loop costs from its ADSL service. Because BellSouth 22

1	does not permit competing providers of DSL-based services to offer their
2	DSL services over the same loop that BellSouth uses to provide voice
3	service to a particular customer, new entrants must either recover their
4	loop costs from their DSL-based services or succeed in winning both the
5	customer's data and voice business away from BellSouth. Thus, by
6	refusing to extend line-sharing to its DSL competitors on the same terms
7	that it allows its own voice and data services to share a single line,
8	BellSouth has converted the market for a new service — DSL-based
9	services — into a market in which it possesses all the incumbency
10	advantages gained through decades of a legal monopoly in the provision of
11	local voice services.
12	Moreover, as Rhythms witness Mr. Geis points out in his rebuttal
13	testimony, new entrants providing DSL-based services must purchase
14	loops, transport (in at least some areas) and collocation from BellSouth.
15	This control over bottleneck facilities gives BellSouth a competitive edge
16	because it creates the opportunity for BellSouth to disadvantage its rivals
17	by offering them prices, terms and conditions that are less favorable than
18	those on which BellSouth provides the same functionality to itself for its
19	retail DSL-based services. For example, an incumbent such as BellSouth
20	can deny new entrants the opportunity to collocate their DSLAM
21	equipment at the remote terminal of a fiber-fed loop, thus making it
22	impossible for a competitor such as Rhythms or Covad to provide DSL-
23	based services over that loop.

1	Q.	Would there be any adverse consequences if the Commission were to
2		disregard these incumbency advantages in establishing prices for
3		unbundled network elements in this proceeding?
4	А.	Yes. Unless the Commission takes active steps to ensure that BellSouth
5		and other incumbents provide unbundled network elements to their
6		competitors in a nondiscriminatory manner that offsets the kinds of
7		incumbency advantages I have described, new entrants that are equally
8		efficient as BellSouth will be unable to offer Florida consumers competitive
9		alternatives for advanced DSL-based services. This lack of competition
10		could affect the price and quality of the DSL-based services available to
11		Florida consumers. Indeed, it could deny some customers any DSL-based
12		option whatsoever, if the incumbent service provider chooses for whatever
13		reason to offer its services only in selected geographic areas.
14	Q.	What specific steps should the Commission take to address these
15		incumbency advantages?
16	A .	The Commission should require an incumbent such as BellSouth to offer
17		unbundled network elements at prices, terms and conditions that are at
18		least as favorable as those on which the incumbent provides the same
19		functionality to itself for its retail DSL-based services. I have already
20		explained that nondiscrimination in pricing requires that prices be based on
21		forward-looking economic costs, or TELRIC. Furthermore, as I explained
22		in my direct testimony, nondiscrimination also requires that the recurring

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1	and nonrecurring charges for unbundled network elements reflect the
2	assumption that new entrants have access at parity to the incumbents' OSS
3	and related databases.

Nondiscrimination in terms and conditions is also essential. It 4 5 means, among other things, that new entrants must be allowed to collocate 6 their DSLAMs at the remote terminals if the incumbent is able to place its 7 own DSLAM equipment at those locations. True nondiscrimination in terms and conditions would also require that the incumbent make line-8 9 sharing available to its competitors if it exercises that option to provide its 10 own DSL-based services. This issue, however, is currently before the 11 FCC, so I am not recommending that this Commission take any action on 12 line-sharing at this time.

13 Q. Does that conclude your testimony at this time?

14 A. Yes, it does.