



Florida Cable Telecommunications Association

Steve Wilkerson, President

VIA HAND DELIVERY

July 31, 2000

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Ms. Blanca S. Bayo, Director
Division of Records and Reporting
Florida Public Service Commission
2540 Shumard Oak Blvd.
Tallahassee, FL 32399-0850

RE: Docket No. 990649-TP

Dear Ms. Bayo:

Enclosed for filing in the above docket are the original and fifteen (15) copies of the Rebuttal Testimony and Exhibits of William J. Barta on behalf of the Florida Cable Telecommunications Association. Copies have been served on the parties of record pursuant to the attached certificate of service.

Please acknowledge receipt of filing of the above by stamping the duplicate copy of this letter and returning the same to me.

Thank you for your assistance in processing this filing. Please contact me with any questions.

Sincerely,

Michael A. Gross
Vice President, Regulatory Affairs &
Regulatory Counsel

MAG/mj

Enclosure

cc: All Parties of Record
William J. Barta

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CERTIFICATE OF SERVICE

I HEREBY CERTIFY that true and correct copies of the foregoing Rebuttal Testimony by William Barta on behalf of the Florida Cable Telecommunications Association, in Docket 990649-TP have been served upon the following parties by ~~U.S. Mail~~ *over night* this *3/5th* day of July, 2000:

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Michael A. Gross

004813

**BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION
TALLAHASSEE, FLORIDA**

**In re: Investigation into
pricing of unbundled network
elements.**

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)
)

Docket No. 990649-TP

**TESTIMONY
AND EXHIBITS
OF
WILLIAM J. BARTA**

**ON BEHALF OF THE
FLORIDA CABLE TELECOMMUNICATIONS ASSOCIATION
HENDERSON RIDGE CONSULTING, INC.
CUMMING, GEORGIA
JULY 31, 2000**

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**BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION
TALLAHASSEE, FLORIDA
REBUTTAL TESTIMONY OF
WILLIAM J. BARTA
DOCKET NO. 990649-TP**

7
8

JULY 31, 2000

9
10

Q. Please state your name and business address.

11
12

A. My name is William Barta, and my business address is 7170 Meadow Brook Court, Cumming, Georgia 30040.

13
14

Q. Have you previously submitted testimony in this proceeding?

15
16

A. Yes. I submitted prefiled testimony on June 8, 2000 in this proceeding.

17
18

Q. On whose behalf are you testifying in this proceeding?

19
20

A. I am testifying on behalf of the Florida Cable Telecommunications Association ("the FCTA").

21
22

Q. What is the purpose of your testimony?

23
24

A. The purpose of my testimony is to address the issues outlined by the Commission in its Order dated March 16, 2000. Specifically, my testimony responds to the incumbent carriers' prefiled testimony and cost filings with respect to Issue nos. 1, 2(a), 2(b), 7(e), 7(g), 7(k), 7(s), 7(t), 7(u), and 8(e).

25

Q. Please summarize your testimony.

1 A. GTE, BellSouth, and Sprint have submitted recurring and nonrecurring cost
2 studies in response to the Commission's list of issues outlined in its March 16,
3 2000 Order. The companies have also advanced their proposals for
4 geographically deaveraging UNEs. GTE and BellSouth, in particular, argue that
5 the geographic deaveraging of UNE rates should be accompanied by rate
6 rebalancing and the establishment of a State universal service fund.

7
8 GTE's and BellSouth's urgency to establish a state universal service fund in
9 conjunction with the geographic deaveraging of UNEs strays from the purpose of
10 the instant proceeding. There is no mention of rate rebalancing or the
11 establishment of a universal service fund in the Commission's list of issues to
12 address in this phase of the proceeding. Furthermore, GTE and BellSouth have
13 yet to substantiate the pressure on universal service that they maintain will result
14 in response to the implementation of deaveraged UNE rates. In this proceeding,
15 the Commission's attention and resources should be focused on implementing
16 fair and reasonable permanent rates for unbundled network elements. The more
17 appropriate forum to determine the need, if any, for a universal service support
18 mechanism is in a separate docket.

19
20 GTE's proposal to deaverage UNE rates based upon the previously approved
21 statewide average rates of each ILEC does not capture the significant variation in
22 the average costs of its Florida wire centers. In the same manner, BellSouth's
23 "rate group to zone mapping" methodology blurs the distinction of cost
24 differences among wire centers and between geographic zones. In order to send
25 the correct pricing and investment signals to CLECs, the companies should

1 geographically deaverage UNE rates upon a methodology that logically groups
2 wire centers with similar cost characteristics together.

3
4 GTE asserts that its Nonrecurring Cost Studies are forward-looking. A closer
5 review, however, indicates that many of the nonrecurring charges to be assessed
6 CLECs are premised on less efficient, manual ordering and provisioning
7 practices. For instance, as part of the ordering function, GTE projects that it will
8 take nearly 8 hours to establish a single CLEC account. The provisioning
9 practices are also dependent upon manual procedures; GTE states that the
10 Facility Assignment Center will require manual assignment for most of the
11 UNEs offered by the Company. These may be the embedded ordering and
12 provisioning practices of GTE but they are not representative of a forward-
13 looking cost study.

14
15 **Issue 1: What factors should the Commission consider in establishing rates and**
16 **charges for UNEs (including deaveraged UNEs and UNE combinations)?**

17
18 **Q. What factors do you believe the Commission should consider in establishing**
19 **permanent rates for unbundled network elements and UNE combinations?**

20 A. The primary consideration of the Commission in its efforts to establish
21 permanent rates for unbundled network elements and UNE combinations is to
22 base the rates upon fully supported cost studies that closely follow the
23 appropriate costing methodology. If appropriate cost-based rates are developed,
24 then the attendant concerns of regulators, the incumbent local exchange carriers,
25 and other parties should be satisfied. Appropriate cost-based rates will promote

1 fair and responsible competitive entry under the requirements of the
2 Telecommunications Act of 1996 and will protect the incumbent local exchange
3 carriers as the providers of the facilities necessary to provision the unbundled
4 network elements and UNE combinations.
5

6 **Q. In developing rates for an incumbent local exchange carrier's unbundled
7 network elements, what costing methodology best furthers the pro-
8 competitive objectives of this Commission?**

9 A. A forward-looking economic cost study is the most appropriate methodology to
10 adopt when the study's objective is to replicate the conditions of a competitive
11 market. If unbundled network elements are priced at the incumbent carrier's
12 forward-looking economic costs, then competing telecommunications service
13 providers should have the opportunity to capture the same types of economies of
14 scale and scope that the incumbent local exchange carrier benefits from. As a
15 result, the telecommunications carriers requesting unbundled network elements
16 should be able to produce more efficiently and compete more effectively – all to
17 the ultimate benefit of the consumer of telecommunications services. In
18 addition, prices based upon a forward-looking costing methodology reduce the
19 ability of the incumbent local exchange carrier to engage in anti-competitive
20 pricing behavior.
21

22 **Q. Do the incumbent local exchange carriers under the jurisdiction of the
23 FPSC support the implementation of UNE and UNE combination rates
24 based upon a forward-looking cost methodology?**
25

1 A. BellSouth and GTE are opposed to the establishment of UNE rates based upon
2 forward-looking, economic costs while Sprint appears willing to base its rates
3 upon such pricing standards.

4
5 **Q. What aspects of forward-looking, economic cost principles do BellSouth and**
6 **GTE disagree with?**

7 A. The witnesses on behalf of BellSouth and GTE state that a forward-looking,
8 economic cost methodology will not provide for the full recovery of the carriers'
9 costs in the provision of UNEs. Mr. Dennis B. Trimble, on behalf of GTE, states
10 that "GTE has long maintained that UNE prices must, in the aggregate, reflect an
11 ILEC's actual costs" (Direct Testimony, page 4, lines 16 and 17).

12
13 Mr. Alphonso J. Varner, on behalf of BellSouth, states "[O]ptimizing
14 competitive development would require prices to be set, at a minimum, to cover
15 the actual costs incurred by the Incumbent Local Exchange Carrier ('ILEC')"
16 (Direct Testimony, page 5, lines 8 through 10). In addition, Mr. Varner
17 apparently believes that a forward-looking, economic cost methodology prevents
18 BellSouth from recovering its shared and common costs:

19 "A consequence of pricing that insufficiently recovers shared cost
20 is that it inappropriately encourages the ILEC to invest in
21 technology that involves low shared cost (which reduces
22 economies of scope) and high incremental costs, even if that is not
23 the lowest cost technology" (Direct Testimony, page 10, lines 19
24 through 22).

25 and

1 "Since ALECs benefit from the use of facilities that generate the
2 costs in question, those ALECs should contribute to the recovery
3 of the shared and common costs that result from economically
4 efficient provisioning of those facilities" (Direct Testimony, page
5 12, lines 5 through 8).

6
7 Finally, it is Mr. Varner's perception that a forward-looking, economic cost
8 methodology does not provide BellSouth the opportunity to earn a reasonable
9 profit as permitted by the 1996 Act:
10

11 "Q. Does pricing at economic cost provide for a reasonable
12 profit as permitted by the Act?

13 B. It certainly does not. Proponents of this theory equate
14 economic profit with cost of capital, which is not an
15 appropriate comparison. Cost of capital is a cost of doing
16 business. It is well accepted that an economic profit cannot
17 be realized until all costs, including the cost of capital, have
18 been recovered" (Direct Testimony, page 18, line 21
19 through page 19, line 2).

20
21 **Q. Why is it improper to include the actual costs of the ILEC in the**
22 **development of UNE rates?**

23 A. The embedded costs of BellSouth and GTE represent their historical or
24 embedded costs and not forward-looking, economic costs. By definition,
25 embedded costs reflect historical purchase prices, network configurations, and

1 operating procedures. To the extent that these cost areas reflect any past
2 inefficiencies, prices based upon embedded costs will lead to inappropriate cost
3 recovery and would not be recovered in a competitive market. On the other
4 hand, prices based upon forward-looking, economic costs give the appropriate
5 signals to producers and consumers and ensure efficient entry and utilization of
6 the telecommunications infrastructure.

7
8 **Q. Is Mr. Varner's concern that the forward-looking, economic cost**
9 **methodology prevents the recovery of BellSouth's shared and common**
10 **costs valid?**

11 A. No. The incumbent carriers can recover a reasonable share of their forward-
12 looking joint and common costs under the forward-looking, economic cost
13 methodology. Most parties, including CLECs, acknowledge that the incumbent
14 local exchange carriers are entitled to recover an appropriate portion of their
15 forward-looking joint (i.e. shared) and common costs. Perhaps Mr. Varner is
16 reaching the misguided conclusion that any challenge to the level of joint and
17 common costs included in the Company's cost studies is equivalent to a denial of
18 recovery through the costing methodology.

19
20 **Q. Should the incumbent carriers be allowed to include "an economic profit,"**
21 **in their proposed UNE rates that is over and above the fair and reasonable**
22 **cost of capital as advocated by Mr. Varner?**

23 A. No. Mr. Varner treats BellSouth's recovery of its fair and reasonable cost of
24 capital "as a cost of doing business" (Direct Testimony, page 19, line 1). As a
25 result of earning its cost of capital, BellSouth will ensure it continues to attract

1 capital at reasonable terms, thereby allowing the company to maintain an
2 efficient capital structure and a sound dividend policy. The company should
3 have the financial flexibility to innovate and expand yet still meet its operating
4 expenses provided its financial results are sufficient to recover its cost of capital.

5
6 On the other hand, profits in excess of the fair and reasonable cost of capital
7 should not be construed as "economic." Mr. Varner's assertion that this is a
8 well-accepted definition of "economic profit" is rather broad unless, of course,
9 the audience is the ILEC community. A more reasonable view with respect to
10 profits that exceed a company's cost of capital holds that such profits are
11 considered supra-normal and temporary. Absent artificial barriers to entry (e.g.
12 monopoly status of the market provider) in the marketplace, the firm will only
13 realize the supra-normal profits in the short-term because other capable firms
14 will be attracted to the prospect of earning supra-normal profits. As more firms
15 enter and compete in the marketplace, prices will be driven back towards the
16 level where only the fair and reasonable cost of capital is being recovered.

17
18 **Q. What are the consequences of establishing forward-looking, economic cost-**
19 **based rates for unbundled network elements according to Mr. Varner?**

20 A. Mr. Varner's dire outlook for the local exchange marketplace is premised on his
21 belief that the rates based upon economic costs do not permit full cost recovery
22 and that inadequate UNE rates will result from its application. According to Mr.
23 Varner, the inadequate UNE prices will reduce the ILECs' incentives to invest in
24 new technology and will promote inefficient market entry as CLECs will choose
25 to consume the ILECs' facilities instead of making their own investments (Direct

1 Testimony, page 10, line 4 through page 11, line 5). Mr. Varner concludes that
2 forward-looking, economic cost-based rates for unbundled network elements will
3 result in "the marginalization of the ILEC."
4

5 "Another troublesome outcome of setting prices too low would be
6 the marginalization of the ILEC. Setting UNE and interconnection
7 services prices at unreasonably low levels will hinder BellSouth's
8 ability to compete because the ALECs will have an artificial
9 pricing advantage over BellSouth. The ALEC will, therefore, be in
10 a better position to 'cherry pick' the more profitable, mainly
11 business customers, and the ILEC will lose the low cost, high
12 margin urban customers to competition" (Direct Testimony, page
13 12, line 20 through page 13, line 1).
14

15 **Q. Do you agree with Mr. Varner's assessment that forward-looking, economic**
16 **cost-based rates for unbundled network elements will foster "cherry**
17 **picking" by CLECs of the company's most attractive customers?**

18 **A.** No, reasonable, forward-looking rates for unbundled network elements should
19 make it possible for CLECs to reach a wider range of consumers because the
20 economies of scale and scope that were referred to earlier will be available on
21 competitive terms. With reasonable, economic cost-based rates, CLECs will be
22 in a better position to profitably serve the average consumer, not just the high
23 revenue-high margin subscriber.
24
25

1 Ironically, the very threats to market stability that Mr. Varner discusses in his
2 testimony are more likely to manifest themselves under the costing approach
3 advocated by him. When the cost studies prepared by BellSouth result in such
4 high rates for unbundled network elements that it becomes unprofitable to serve
5 any consumers but those with the highest margins, then CLECs will have no
6 recourse but to seek out those high margin customers. Mr. Varner's may label
7 this market strategy "cherry picking" but it is nothing more than a competitive
8 reality.

9
10 **Q. What remedies does Mr. Varner propose to cure the market deficiencies he**
11 **perceives will surface in the event forward-looking, economic cost-based**
12 **rates for unbundled network elements are established?**

13 A. First, Mr. Varner recommends that BellSouth be permitted full recovery of its
14 actual costs and that the Company be able to design rates based upon other
15 considerations, such as market forces. Furthermore, Mr. Varner states that the
16 rates for unbundled network elements should include a level of profit over and
17 above its fair and reasonable cost of capital.

18
19 Mr. Varner also claims that "geographically deaveraged pricing places an
20 additional burden on universal service" (Direct Testimony, page 7, lines 21 and
21 22). In response to this pressure on universal service (which the Company has
22 yet to substantiate), Mr. Varner maintains that geographic deaveraging of UNE
23 rates must be concurrent with "the implementation of an appropriate universal
24 service support mechanism and/or the implementation of adequate rate
25 rebalancing" (Direct Testimony, page 7, lines 22 through 25). Indeed, Mr.

1 Varner emphasizes his desire for universal service support: “the most important
2 issue is to immediately address the implementation of an appropriate state
3 universal service fund” (Direct Testimony, page 9, lines 7 through 9).
4

5 **Q. Do you believe that Mr. Varner’s “remedies” represent sound, regulatory**
6 **policy?**

7 A. No. The pitfalls associated with Mr. Varner’s recommended costing scheme
8 have already been pointed out. Full recovery of actual costs, built-in “economic
9 profits,” and market-based pricing will only serve to retard the development of
10 efficient, local exchange competition.
11

12 Mr. Varner’s urgency to establish a State universal service fund strays from the
13 purpose of the instant proceeding. This proceeding is intended to establish
14 permanent rates for unbundled network elements, deaveraged UNEs, and UNE
15 combinations. The more appropriate forum to determine the need, if any, for an
16 interim universal service support mechanism is in a separate docket. In fact, the
17 Commission has already considered the need for an interim universal service
18 fund in a prior docket. At this point, the Commission’s attention and resources
19 are more appropriately focused on implementing fair and reasonable permanent
20 rates for unbundled network elements. There is no reason to further delay the
21 widespread availability of UNEs or unduly complicate this undertaking with
22 other issues that may be relevant but can be better addressed in a separate
23 proceeding.
24
25

1 **Q. So far the discussion of prices for unbundled network elements has been**
2 **centered on rates that are perceived to be too low. Is Mr. Varner equally**
3 **concerned with rates that are set for unbundled network elements that are**
4 **set too high?**

5 A. Mr. Varner acknowledges that “[P]rices that are set either too high or too low
6 will not, in the long run, benefit the consumer” (Direct Testimony, page 5, lines
7 2 and 3). But Mr. Varner is far less concerned with prices that are set too high
8 than those that are set too low. In Mr. Varner’s view, excessive rates for
9 unbundled network elements do not pose any of the market disruptions that stem
10 from reasonable, economic cost-based UNE rates: “[O]f course, setting prices
11 too high will give ALECs the maximum incentive to construct their own
12 facilities and, in the long run, infrastructure competition will develop sooner”
13 (Direct Testimony, page 14, lines 15 through 17).

14
15 **Q. Do you agree with Mr. Varner that the only downside to setting UNE rates**
16 **too high is that CLECs will invest in their own infrastructure sooner than**
17 **they would have absent appropriate cost-based rates?**

18 A. No. Mr. Varner’s cavalier dismissal of above-cost UNE rates ignores the fact
19 that CLECs are financially unable to develop a ubiquitous telecommunications
20 infrastructure from scratch. As Mr. Varner well knows, the costs of investing in
21 duplicative facilities are prohibitive. The undertaking to construct duplicative
22 loops and switching facilities is massive, time-consuming, and in many
23 instances, uneconomical given the need to reach individual subscribers over wide
24 areas. BellSouth had the luxury of growing its network to meet demand over a
25 period of more than a hundred years as a monopoly utility with ample funding

1 available from its ratepayers. Those privileges cannot and will not be extended
2 to CLECs.

3
4 **Issue 2: (a) What is the appropriate methodology to deaverage UNEs and
5 what is the appropriate rate structure for deaveraged UNEs?**

6 **(b) For which of the following UNEs should the Commission set
7 deaveraged rates?**

8 (1) loops (all);

9 (2) local switching;

10 (3) interoffice transport (dedicated and shared);

11 (4) other (including combinations).

12
13 **Q. On what basis should unbundled network elements be deaveraged (Issue
14 2(a))?**

15 **A.** The FCC requires that incumbent local exchange carriers deaverage rates for
16 those unbundled network elements that exhibit significant geographical cost
17 differences. The FCC specifies that UNE rates deaveraged across three
18 geographic zones is presumptively sufficient. The deaveraging of unbundled
19 network elements and UNE combinations should be based upon a rationale
20 assignment where the underlying costs of providing the UNE are consistent
21 within the geographic zone. For instance, the average cost of a loop can be
22 determined on a wire center basis. Wire centers with similar cost characteristics
23 should be grouped together in order to develop more accurate cost-based rates
24 for each geographic zone.

1 **Q. How do the ILECs propose to deaverage unbundled network elements**
2 **across three geographic zones?**

3 A. BellSouth advocates that the wire centers within its existing rate groups be
4 classified into one of three zone designations.

5
6 GTE proposes a cafeteria plan for the Commission's consideration: (1) establish
7 a single rate for each of the three non-rural incumbent local exchange carriers in
8 an attempt to comply with the FCC's three geographic zone requirement; (2)
9 establish three new zones for the entire state after examining the cost filings of
10 all the ILECs; or (3) establish geographic zones based upon wire center cost
11 differences.

12
13 Sprint recommends that geographic zones be constructed such that "the average
14 rate in each zone is no more than 20% higher or 20% less than the forward-
15 looking cost of providing that element" (Direct Testimony of Mr. James W.
16 Sichtler, page 16, line 4 through line 6).

17
18 **Q. Do you agree with BellSouth's proposal to deaverage unbundled network**
19 **elements into three geographic zones?**

20 A. No. BellSouth's rate group to zone mapping approach results in geographic
21 zones that include wire centers with wide-ranging average monthly loop costs.
22 The extent of the low cost/high cost wire center combination within each
23 proposed geographic zone is material and blurs the distinction of cost differences
24 among wire centers and between geographic zones. There should be a more
25

1 homogenous classification of wire centers to geographic zones based upon the
2 cost characteristics of the individual wire centers.

3
4 **Q. Do you believe that GTE's proposals to deaverage unbundled network**
5 **elements will result in cost-based rates?**

6 A. No, except for possibly the third menu item. GTE's first proposal is an
7 oversimplistic attempt to satisfy the FCC's deaveraging requirements. Under the
8 proposal, "deaveraged rates" would mirror each non-rural ILECs' statewide
9 average costs. Such a high level of aggregation of costs does little to capture the
10 significant cost variations in the provision of unbundled network elements that
11 exist within the carriers' service territories. Thus, competing carriers will
12 continue to be charged statewide average rates for unbundled loops when the
13 costs of providing those loops may be far below the carriers' statewide average.

14
15 In contrast to its first proposal, GTE's second plan for deaveraging unbundled
16 network elements burdens the effort with unnecessary complexity. GTE requests
17 that the Commission examine all ILEC cost submissions in the state, presumably
18 those of the rural as well as the non-rural carriers, in its determination of the
19 appropriate geographic zones. It is unclear whether the GTE proposal would
20 assign the unbundled network elements of different carriers to the same
21 geographic zone or whether company-specific geographic zones would prevail.
22 But it does seem certain that such an exercise would introduce further delay into
23 the implementation of geographic deaveraged rates for unbundled network
24 elements.

1 GTE's third alternative is to base geographic deaveraging upon wire center cost
2 differences. The proposal has merit but the exact methodology has yet to be
3 fully presented by the Company. Thus, it is premature to embrace the wire
4 center cost difference approach at this time.

5
6 **Q. Do you find Sprint's proposal to deaverage unbundled network elements**
7 **reasonable?**

8 A. No. As a matter of consistency, the deaveraging methodology should be the
9 same for all of the ILECs and based upon three geographic zones. A three
10 geographic zone rate plan is also consistent with the methodology that the
11 Federal Communications Commission has declared to be presumptively
12 sufficient. The use of more than three geographic zones for Sprint's unbundled
13 network elements introduces unnecessary planning, marketing, and
14 administrative burdens upon CLECs. The competitive carriers will have to
15 commit more resources to developing network and marketing plans to serve
16 specific geographic areas. If the Commission approves the Company's
17 methodology, it should limit its approval to Sprint and not impose the
18 methodology upon GTE or BellSouth.

19
20 **Q. What is your recommendation with respect to assigning UNEs to geographic**
21 **zones?**

22 A. I recommend that the methodology adopted as part of the stipulation reached
23 among the parties in support of interim UNE rates in Florida be used for
24 permanent pricing purposes. In the stipulation methodology, the deaveraging of
25 the unbundled loop is based upon the ratio of an individual wire center's average

1 monthly loop cost to the statewide average monthly loop cost. All wire centers
2 with costs of 0% to 100% of the statewide average loop cost are assigned to
3 Zone 1. All wire centers with average loop costs ranging from 101% to 200% of
4 the statewide average are classified to Zone 2. Finally, all wire centers with
5 average loop costs in excess of 200% of the statewide average cost are placed in
6 Zone 3.

7
8 **Q. What is the appropriate rate structure for deaveraged UNEs (Issue 2(a))?**

9 A. The rates for unbundled network elements and UNE combinations should be
10 structured to recover the ILECs costs in the manner in which they are incurred.
11 In general, recurring costs should be recovered through monthly recurring rates
12 while reasonable, nonrecurring charges should be assessed to recover
13 nonrecurring costs.

14
15 By adhering to these general principles of rate design, the appropriate pricing
16 signals will be sent to requesting carriers and assist in their decision to lease or
17 construct their own network facilities. The development of competition should
18 also be encouraged by allowing the competing carriers to incur costs in a manner
19 similar to those incurred by the ILECs.

20
21 **Q. For which unbundled network elements and UNE combinations should
22 deaveraged rates be established (Issue 2(b))?**

23 A. The rates for an unbundled network element should be deaveraged where
24 significant cost variations are present. For instance, the cost attributes of a loop
25 reflect geographic differences. In highly concentrated urban areas, loop lengths

1 tend to be shorter than in the more sparsely populated rural areas. Since loop
2 length is considered to be a major cost driver in the provision of a loop, it is
3 reasonable for the Commission to geographically deaverage the rates for an
4 unbundled loop.

5
6 On the other hand, one would not expect switching costs to differ materially
7 between similarly configured switches whether they are deployed in an urban
8 market or a rural wire center. Other UNEs, such as interoffice transport, already
9 have rate structures (i.e. on a per mile basis) that account for geographic cost
10 variations.

11
12 The deaveraging of rates for UNE combinations should be based upon the cost
13 characteristics of the underlying network components. Thus, the rate for a UNE
14 combination that depends upon a loop (e.g. unbundled loop and transport) should
15 reflect the deaveraged rate for an unbundled loop.

16
17 **Issue 7: What are the appropriate assumptions and inputs for the following**
18 **items to be used in the forward-looking recurring UNE cost studies?**

- 19 (a) **network design (including customer location assumptions);**
20 (b) **depreciation;**
21 (c) **cost of capital;**
22 (d) **tax rates;**
23 (e) **structure sharing;**
24 (f) **structure costs;**
25 (g) **fill factors;**

- 1 (h) manholes;
- 2 (i) fiber cable;
- 3 (j) copper cable;
- 4 (k) drops;
- 5 (l) network interface device;
- 6 (m) digital loop carrier costs;
- 7 (n) terminal costs;
- 8 (o) switching costs and associated variables;
- 9 (p) traffic data;
- 10 (q) signaling system costs;
- 11 (r) transport system costs and associated variables;
- 12 (s) loadings;
- 13 (t) expenses;
- 14 (u) common costs;
- 15 (v) other.

16

17 **Q. What assumptions and input values have you reviewed that determine the**
18 **network configuration designed by each of the cost proxy models (Issue**
19 **7(a))?**

20 **A.** Although I have reviewed the documentation submitted in support of each of the
21 cost proxy models' design of outside plant facilities, my recommendation is
22 limited to the copper/fiber crossover point. Other parties to the proceeding,
23 however, are likely to raise valid concerns challenging additional assumptions
24 and input values that are fundamental to the network configuration design of the
25 ILECs' cost proxy models. A more efficient and cost-effective network

1 configuration may very well be realized from their recommendations.
2 Presumably, the model enhancements resulting from these recommendations will
3 produce lower overall UNE rates.
4

5 **Q. What does the copper/fiber crossover point refer to in the ILECs' cost proxy
6 model?**

7 A. The copper/fiber crossover point is a user-adjustable input value in each of the
8 ILECs' cost proxy models. The copper/fiber crossover point refers to the
9 threshold where fiber facilities are used in lieu of copper facilities. Each of the
10 ILECs' cost proxy models adopt a default input value of 12,000 feet for the
11 copper/fiber crossover threshold.
12

13 **Q. What is the appropriate copper/fiber crossover point to use as an input
14 value in the cost proxy models' design of the network?**

15 A. The copper/fiber crossover point should be adjusted to 18,000 feet. A model
16 platform that uses 18,000 foot copper loop lengths will support appropriate
17 quality levels of services in most cases. The 12,000 foot constraint may ensure
18 the provision of all services, including video services, but it burdens the majority
19 of UNE rates with additional and unnecessary costs.
20

21 **Q. What is meant by the sharing of support structures (Issue 7(e))?**

22 A. Structure sharing refers to the practice of sharing investments in poles, trenches,
23 and conduits with other utilities and/or carriers.
24
25

1 **Q. What level of structure sharing is assumed in each of the ILECs' cost proxy**
2 **models?**

3 A. It is difficult to separately identify the extent of structure sharing assumed in the
4 BellSouth cost proxy model. As explained by the Company's witness:

5 "BellSouth utilizes loading factors to identify the amount of pole
6 and conduit investment required to support the associated aerial
7 and underground cable. During the development of these factors,
8 anticipated net rents (expenses paid to other parties for attaching to
9 their structures less revenues received from others for attaching to
10 BellSouth's structures) from sharing arrangements are considered.
11 Thus, implicitly structure sharing is reflected in the calculation. . .
12 Sharing of trenching is reflected in the in-plant factor associated
13 with buried cable. Since this factor is developed by analyzing the
14 relationship between total installed investments and material
15 prices, any savings gleaned from sharing of placement costs has
16 been considered" (Direct Testimony of D. Daonne Caldwell, page
17 42, line 24 through page 43, line 12).

18
19 According to the input values of the ICM, GTE assumes the level of structure
20 sharing to be one additional utility and/or carrier on poles and no other parties
21 and/or carriers sharing trenches or conduits.

22
23 In the Sprint TELRIC studies: "The structure sharing inputs are expressed in
24 terms of the percent of costs assigned to telephone, which equates to the
25 percentage of the structure cost that is borne by the ILEC. The reciprocal of this

1 input factor represents the portion of the structure cost that is borne by
2 companies other than the ILEC, such as power and/or cable companies. The
3 model inputs are segregated between feeder and distribution sub-loop
4 components, by aerial, buried and underground plant mix and by each of the nine
5 customer density zones” (Direct Testimony of Kent R. Dickerson, page 12, line
6 15 through line 24). In his Direct Testimony, Mr. Dickerson explains that the
7 structure sharing inputs for underground and buried feeder and distribution cable
8 were set at 85% and 80% for the majority of customers served by Sprint. The
9 structure sharing input for poles was set at 27% for all density zones.

10
11 **Q. What level of structure sharing is appropriate for the ILECs to assume in**
12 **the cost proxy models?**

13 A. I recommend that the structure sharing model values for BellSouth and GTE be
14 modified to include at least two additional parties sharing pole facilities. The
15 percentage of structure sharing among utilities and other users should increase in
16 the future as more parties require space on a limited number of facilities and
17 right-of-ways. My recommended structure sharing level recognizes that
18 although there will be more carriers seeking the economic benefits of structure
19 sharing, the opportunities for such sharing may be constrained for a number of
20 reasons, including engineering limitations.

21
22 **Q. What is a fill factor (Issue 7(g))?**

23 A. A fill factor represents the percentage of the network facility that is being used.
24 The network facilities of telecommunications common carriers are engineered
25 with an appropriate amount of spare capacity in mind. The spare capacity can

1 take the form of administrative spare, spare capacity attributed to modularity,
2 and demand related spare.

3
4 **Q. How do the fill factors adopted for feeder and distribution facilities affect**
5 **the cost estimates developed by the models?**

6 A. The fill factors used in the ILECs' cost proxy models affect the level of
7 investment required to provide services to customers. Lower than necessary
8 utilization rates increase total loop investment because the increase in required
9 capacity associated with lower fill factors increases the amount of loop plant
10 used to deliver telecommunications services. Optimistically robust fill factors
11 may jeopardize the quality of service.

12
13 The appropriate fill factor used in the cost proxy models should balance current
14 and expected demand levels as well as accommodate the requirements for
15 administrative and modular related spare capacity over the economic life of the
16 feeder and distribution facilities. Deploying facilities to satisfy demand that is
17 not expected to materialize until after the facilities have been retired represents
18 poor management judgment. A competitive firm would not be able to overcome
19 such errors of judgment by passing on the higher costs to its customers.

20
21 The economic lives that the incumbent carriers have assigned to distribution and
22 feeder facilities for capital recovery purposes should be consistent with the fill
23 factors developed as part of the efficient network configured by the cost proxy
24 models. For instance, if the incumbent carriers assign an economic life of 14
25 years for metallic distribution facilities, then it is not reasonable to size these

1 facilities to satisfy demand levels that may not emerge for 25 to 30 years in the
2 future, long after the facilities are projected to be retired.

3
4 **Q. Have you commented previously upon the level of operating expenses and**
5 **common costs that the incumbent carriers seek to recover through the**
6 **proposed UNE rates?**

7 A. Yes. In the prefiled testimony that I submitted on June 8, 2000, I commented
8 upon the level of total operating expenses, including common costs, that the
9 incumbent carriers project will be incurred on a forward-looking basis in the
10 provision of unbundled network elements. At an earlier point in this proceeding,
11 the Commission had ordered that the issues of operating expenses and common
12 costs be addressed by the intervenors in their June 8, 2000 prefiled testimony.
13 The Commission subsequently deferred the review of these issues until the
14 current round of testimony. Although my initial comments with respect to the
15 ILECs' operating expenses and common costs appear in my June 8, 2000
16 prefiled testimony, they are further discussed here as a matter of convenience.

17
18 **Q. How are the operating expenses developed in the ILECs' cost proxy models**
19 **(Issue 7(t))?**

20 A. The operating expenses proposed to be recovered by the ILECs are estimated by
21 massaging base period expense levels through a series of adjustments and
22 factors. The base year expenses may then be adjusted through inflation factors
23 and productivity offsets as well as "normalization" adjustments in an effort to
24 make the baseline data representative of forward-looking conditions. Other
25 adjustments may also be proposed such as an avoided retail expense adjustment,

1 activity based cost adjustments, special study adjustments, and shared and
2 common cost adjustments. Annual charge factors are also developed under a
3 costing pool methodology that assigns individual plant and expense account
4 activity to one or more cost pools.

5
6 **Q. What conclusions did you reach regarding the reasonableness of the level of**
7 **operating expenses included in the ILECs' cost studies?**

8 A. The results of my analyses suggest that the operating expenses included in
9 BellSouth's and GTE's cost studies appear overstated and not representative of
10 forward-looking conditions. For instance, the inflation factor of 3.2% to 3.5%
11 assumed by BellSouth exceeds the productivity offset of 3.1% resulting in a
12 growing level of expenses each year during the forecast period. GTE has made
13 an initial series of adjustments to its base year expenses (i.e. 1998 ARMIS data)
14 that actually increase the operating expenses prior to other adjustments.

15
16 One would expect lower levels of operating expenses to be projected on a
17 forward-looking basis assuming the network configurations of the cost proxy
18 models embrace the most efficient, least cost technology and the engineering and
19 operating practices of the carrier reflect productivity enhancements. As
20 presented in Exhibit__(WJB-1), the trend of BellSouth's and GTE's operations
21 indicate declining expense levels on a per access line basis over the last several
22 years. Therefore, an ILEC's proposal to recover a level of operating expenses
23 that exceeds its incurred costs should undergo rigorous scrutiny.

24
25 **Q. What are common costs (Issue 7(u))?**

1 A. Common costs refer to those costs that are common to all products and services
2 of the ILECs. These costs cannot be identified with the provision of any specific
3 service or group of services.
4

5 **Q. How do the ILECs propose to recover the common costs that have been**
6 **identified?**

7 A. The carriers propose to recover their projected common costs through a uniform
8 mark-up applied to the unbundled network elements and UNE combinations.
9 BellSouth proposes a mark-up of 6.24%, GTE advocates a "fixed allocator" of
10 18.1%, and Sprint caps the common cost mark-up at 15.00%.
11

12 **Q. What adjustment do you recommend to modify the level of common costs**
13 **the carriers seek to recover?**

14 A. As part of their effort to develop forward-looking expenses subject to recovery
15 through UNE rates, the carriers have made an adjustment to exclude the retail
16 costs that will be avoided in the wholesale environment. The avoided retail cost
17 adjustment, however, appears to understate the level of costs that should be
18 excluded from the cost studies. BellSouth claims that the percentage of retail
19 costs to be excluded on a forward-looking basis is 11.20%. The results of the
20 GTE cost studies indicate that only 8.30% of its forward-looking expenses are
21 attributed to retail costs.
22

23 The avoided retail cost adjustment should reflect the wholesale percentage
24 discount ordered by the Florida Public Service Commission for each carrier. In
25 the case of BellSouth, the FPSC ordered a resale discount of 21.83% for

1 residential customers and 16.30% for business customers. The avoided retail
2 cost discount ordered for GTE is 13.04%. The impact of substituting the
3 Commission-ordered wholesale percentage discount for each carrier's proposed
4 avoided retail costs can be found in Exhibit __ (WJB-2).

5
6 **Issue 8: What are the appropriate assumptions and inputs for the following items**
7 **to be used in the forward-looking non-recurring UNE cost studies?**

- 8 (a) network design;
9 (b) OSS design;
10 (c) labor rates;
11 (d) required activities;
12 (e) mix of manual versus electronic activities;
13 (f) other.

14
15 **Q. Did your review of GTE's Wholesale Non-Recurring Cost Study ("NRC**
16 **Study") find it to be based upon forward-looking practices (Issue 8(e))?**

17 A. No, not in all areas. The Company asserts that "[T]he UNE NRC Study is a
18 forward-looking study that accounts for the activities required to pre-order,
19 order, provision, and install products and services for Competitive Local
20 Exchange Carriers (CLECs)" (NRC Study, page 13-FL 1). A closer review of
21 the NRC Study, however, indicates that many of the nonrecurring charges to be
22 assessed CLECs requesting unbundled network elements are premised on less
23 efficient, manual ordering and provisioning practices.

1 **Q. Please provide an example where you have found the Company's**
2 **procedures to be overly reliant on manual processes?**

3 A. GTE claims in its NRC Study that CLECs can transmit their Local Service
4 Requests ("LSR") to the Company via a Manual Order, Semi-mechanized Order,
5 or a Mechanized Order "depending on the CLEC's systems, processes, and level
6 of mechanization" (NRC Study, page 13-FL 2). In actual practice, however, the
7 Mechanized Order process is not available as an option but GTE "will in the
8 future develop costs for the fully Mechanized Order process scenario" (NRC
9 Study, page 13-FL 2).

10
11 **Q. Is this the extent of the Company's reliance upon manual procedures in the**
12 **determination of its nonrecurring costs to provide UNEs and UNE**
13 **combinations?**

14 A. No. In the explanation of ordering function activities, GTE discusses the
15 involvement of a Service Representative at its National Open Market Centers
16 ("NOMC") for each of the ordering processing modes (i.e. Manual Mode, Semi-
17 mechanized Mode, and Mechanized Mode). The National Open Market Centers
18 serve as the single point of contact for pre-ordering and ordering local network
19 UNEs. In a parenthetical reference, the Company notes that:

20
21 "(For Exchange – Complex and Advanced/Special UNE services
22 all order entry is currently done manually by the NOMC personnel
23 regardless of the order receipt mode. For these types of orders, a
24 GTE Service Representative inputs the order and, if applicable, the
25

1 Data Gathering Form (DGF) into the system)” (NRC Study, page
2 14-FL 2).

3
4 Most the Company’s proposed UNEs fall into the Exchange – Complex and the
5 Advanced/Special categories. Thus, CLECs will be assessed nonrecurring
6 charges based upon manual ordering procedures for the majority of UNEs.
7 Exhibit__(WJB-3) reproduces the matrix prepared by GTE of UNE categories
8 and associated UNEs and highlights those UNEs that are subject to the manual
9 order processing procedures.

10
11 **Q. Are the provisioning practices of the Company based upon more efficient**
12 **processes than the ordering function activities?**

13 A. No, not necessarily. In an explanation of the provisioning function, GTE states:

14
15 “Provisioning activities include facility assignment and switch
16 translations (if required). Exchange UNEs require manual
17 provisioning. For the Exchange – Basic UNE-Ps much of the
18 provisioning is automated. The Exchange – Basic services can be
19 provisioned using standard network components maintained in
20 inventory without specialized switch translations. The Facility
21 Assignment Center (FAC) consists of the Select, Special Products
22 Assignment Group (SPAG), and Provisioning Support groups.
23 These groups are involved only when there is system fall-out
24 requiring manual assignment and switch updates.

1 The Exchange – Complex UNE/UNE-Ps require more manual
2 provisioning due to switch translations, routing instructions, and
3 service arrangements” (NRC Study, page 15-FL 1).
4

5 The Company subsequently discloses the degree of manual assignment in
6 provisioning UNEs:
7

8 “The FAC has responsibility for assignment of outside plant
9 facilities and central office line equipment for Exchange – Basic,
10 Exchange – Complex, and Advanced/Special – Basic UNEs. **All**
11 **Exchange and Advanced/Special UNEs require manual**
12 **assignment.** The Assignment, Activation, and Inventory System
13 (AAIS) will automatically process an order for Exchange – Basic
14 UNE-Ps whenever possible. However, when mechanized
15 assignment does not happen, the FAC will manually provision the
16 order” (NRC Study, page 15-FL 2, emphasis added).
17

18 As explained in the NRC Study, the Company’s provisioning activities are
19 largely dependent upon manual assignment for the majority of UNEs much like
20 the ordering functions.
21

22 **Q. Has GTE indicated what percentage of orders will fall-out and require**
23 **manual intervention?**

24 A. Yes. In a description of “Infrastructure Enhancements,” the Company states that
25 in the Mechanized Order mode a “small percent of orders fall-out of the system

1 and require a GTE service representative to notify the CLEC” (NRC Study, page
2 13-FL 2). It is revealing what GTE considers to be a small percent of fall-out
3 orders.

4
5 The Company assumes that “[A]pproximately 22% of the New Basic Exchange
6 UNE LSRs submitted electronically by the CLEC fall out of NOCV and require
7 a GTE Service Representative to manually input the order” (NRC Study, page
8 14-FL 2). In effect, GTE projects that its electronic ordering systems will be so
9 inefficient that more than one out of five orders will be kicked out and require
10 manual intervention. Such a high fall out rate is not representative of forward-
11 looking conditions and it is doubtful that GTE’s own customers would tolerate
12 such inefficiency.

13
14 **Q. Have you identified any other areas of the Company’s Non-Recurring Cost**
15 **Study that result in excessive nonrecurring costs?**

16 A. Yes. Although the procedures that a CLEC must undertake to establish an
17 account with GTE appear reasonable on their surface, they seem to consume an
18 inordinate amount of time for account set-up:

19
20 “CLEC Account Establishment – GTE establishes the CLEC
21 account in each state that the CLEC requests. The NOMC receives
22 the CLEC profile from the CLEC’s account manager, reviews it
23 for completeness, and then enters the CLEC profile information
24 and creates summary bill masters in NOCV. Once the CLEC
25

1 account has been established for a state, the CLEC may submit an
2 LSR for processing” (NRC Study, page 13-FL 6).

3
4 In order to conduct these account establishment procedures for one CLEC, GTE
5 estimates that it will take 462 minutes or nearly 8 hours to set-up the account
6 (NRC Study, page 14-FL 22). Furthermore, it is unclear from the cost study
7 documentation whether the CLEC Account Establishment charge will be
8 assessed by individual state in which the CLEC requests UNEs from GTE or on
9 a per carrier basis.

10
11 It should be kept in mind that while GTE is fully recovering its costs associated
12 with establishing the CLEC account, the CLEC must not only absorb these
13 charges but also the costs incurred in having its employees interact with GTE in
14 the account establishment process.

15
16 **Q. Have you identified any other shortcomings in the Company’s NRC Study?**

17 **A.** Yes. GTE asserts its UNE NRC Study is a “forward-looking study” (NRC
18 Study, page 13-FL 1). The pre-ordering activities for Dark Fiber, however, do
19 not appear representative of forward-looking practices as they rely upon
20 extensive manual effort. The preordering effort for Dark Fiber – Exchange
21 Facilities is projected to take 243.25 minutes or nearly 4 hours at a cost of
22 \$143.52. The preordering activities for Dark Fiber – Interoffice Facilities are
23 estimated to consume a total of 474.50 minutes or nearly 8 hours at a
24 nonrecurring charge of \$282.05. These may be the embedded pre-ordering
25 practices of GTE but they are not representative of a forward-looking cost study.

1
2 **Q. What other areas of the Company's NRC Study warrant further scrutiny by**
3 **the Commission?**

4 A. The Company intends to recover the one-time costs incurred for OSS system
5 upgrades through a "Transition Cost" charge. GTE has "identified two types of
6 costs associated with OSS – Transition Costs and Transaction-specific Costs.
7 Transition costs are the costs to upgrade existing OSS and the start-up costs to
8 establish mechanized systems. These infrastructure changes were required to
9 make GTE's OSS accessible to CLECs. The transition costs include the one-
10 time expenses to upgrade the five categories of OSS: pre-order, order,
11 provisioning, repair/maintenance, and billing" (NRC Study, page 13-FL 6). It
12 would be more appropriate to recover any OSS-related "Transition Costs"
13 through the Company's recurring rates for UNEs in order to avoid assessing
14 CLECs even higher nonrecurring rates.

15
16 **Q. Are there any other items you wish to comment upon with respect to the**
17 **Company's NRC Study?**

18 A. Yes. GTE will add an additional nonrecurring charge of \$5.53 to each Local
19 Service Request submitted by a CLEC. According to the Company, the purpose
20 of this extra charge is to recover the shared and fixed costs of the National Open
21 Market Centers:

22
23 "GTE's shared/fixed costs were developed based on the costs GTE
24 actually incurred, as described in GTE's NRC Study. GTE
25 proposes to recover these costs through an additional amount

1 included in the NRC assessed on every CLEC order. Specifically,
2 whenever a CLEC places an order or initiates an activity involving
3 GTE's NOMCs, the CLEC's 'ordering' NRC includes \$5.53 for
4 recovery of shared/fixed NOMC costs. This amount is based on an
5 estimate of how many times CLECs will use GTE's NOMCs in a
6 year" (Direct Testimony of Mr. Dennis Trimble, page 26, line 1).

7
8 The magnitude of the per order charge to recover NOMC related costs requires
9 that the Company provide full cost documentation in support of the charge. But
10 GTE has provided scant cost documentation in support of the NOMC
11 shared/fixed cost per order charge of \$5.53. Indeed, the only support that Mr.
12 Trimble provides is at such a high level (i.e. three line items of information) that
13 it cannot be determined whether the per order NOMC charge is reasonable. One
14 would expect the NOMC per order charge to be uniform across GTE's operating
15 subsidiaries in different jurisdictions since it is based upon an estimate of how
16 many times CLECs will use GTE's National Open Market Centers in a year. But
17 somehow GTE has estimated the NOMC per order charge to be \$5.53 in Florida
18 while the same per order cost recovery in North Carolina is estimated to be
19 \$4.76. Based upon the Company's premise for developing the NOMC per order
20 charge, the costs recovered on a per order basis from a CLEC should be the same
21 whether the CLEC is requesting UNEs in North Carolina or in Florida. The
22 Commission should order the Company to be more forthcoming concerning its
23 investment and operating costs associated with each of its NOMCs. At this
24 point, the Commission is not in a position to determine if such a per order charge
25 is even necessary much less reasonable.

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Q. Does this conclude your testimony?

A. Yes.

**BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION
TALLAHASSEE, FLORIDA**

**In re: Investigation into
pricing of unbundled network
elements.**

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)
)

Docket No. 990649-TP

**EXHIBITS
OF
WILLIAM J. BARTA**

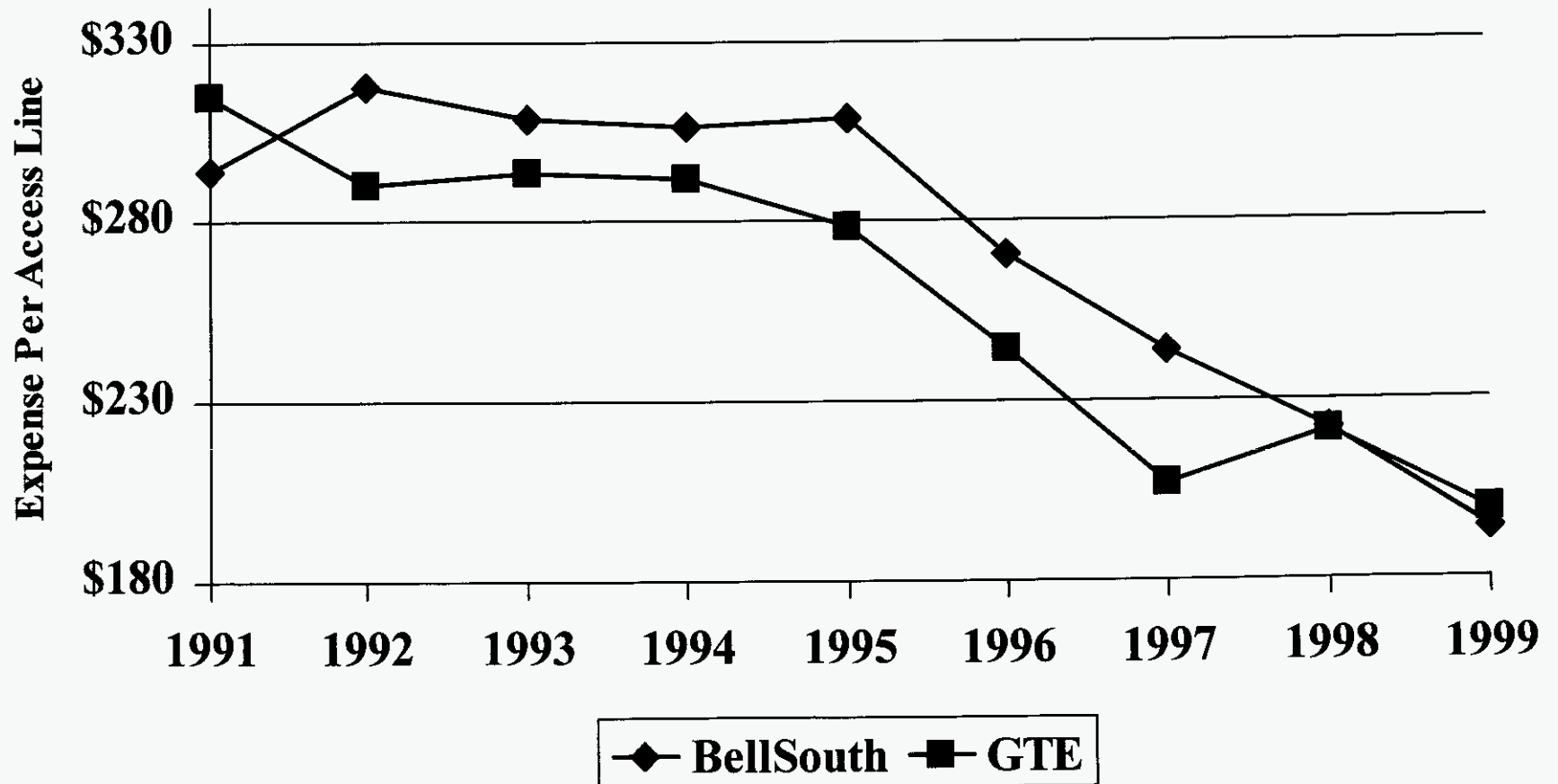
**ON BEHALF OF THE
FLORIDA CABLE TELECOMMUNICATIONS ASSOCIATION**

**HENDERSON RIDGE CONSULTING, INC.
CUMMING, GEORGIA
JULY 31, 2000**

004850

BellSouth Telecommunications, Inc. and GTE Florida, Inc. State of Florida

(Total Operating Expense - Depreciation Expense) Per Access Lines
1991 - 1999



**Analysis of Forward-looking Avoided Retail Costs vs. Commission-ordered Discount
BellSouth and GTE**

<u>Line no.</u>		<u>BellSouth</u>	<u>GTE</u>	<u>Sprint</u>
1	Total retail costs to be avoided per cost study	\$ 2,188,369,392	\$ 88,966,793	(study not performed)
2	Total expenses subject to recovery per cost study	19,534,404,596	1,064,237,565	
3	Avoided retail cost percentage	11.20%	8.36%	
4	Commission-ordered avoided retail cost percentage	21.83%	13.04%	
5	Difference between carrier avoided retail cost percentage and Commission-ordered avoided retail cost percentage	10.63%	4.68%	
6	Additional retail costs to exclude from TELRIC studies	\$ 2,075,991,131	\$ 49,809,785	

Source:

Residential wholesale percentage discount for BellSouth per FPSC Order PSC-96-1579-FOF-TP issued December 31, 1996.

GTE wholesale percentage discount per FPSC Order PSC-97-0064-FOF-TP issued January 17, 1997.

GTE – Florida
Matrix of UNE Categories and Associated UNEs

Exchange - Basic	Exchange - Complex	Special/Advanced - Basic	Special/Advanced -Complex
• 2-Wire Analog Loop	• Complex Non-Digital Loop	• 2-Wire Digital Loop	• DS1 Loop
• 4-Wire Analog Loop	• Subloop Distribution: 2-Wire Non-loaded, 4-Wire Non-loaded	• 4-Wire Digital Loop	• DS3 Loop
• Basic Analog Line Side Port	• Subloop Feeder: 2-Wire Non-loaded, 4-Wire Non-loaded	• Entrance Facilities	• Dedicated Switched Access Line
• Vertical Features	• Loop Conditioning	•	• ISDN PRI Digital Trunk Side Port
• Interim Number Portability (INP)	• CentraNet Port	•	• DS1 Digital Trunk Side Port
• C.O. Interconnection	• ISDN BRI Digital Line Side Port	•	• Dedicated Switched Access Port
• Subloop Distribution: 2-Wire Standard, 4-Wire Standard	• Vertical Features	•	• Dedicated Non-Switched Transport
• Subloop Feeder: 2-Wire Standard, 4-Wire Standard	• Switch Feature Group	•	• SS7 Links
• Subloop Unbundled Customer Serving Terminal (Drop)	• Customized Routing OA/DA	•	• STP Ports
• Network	• Line Sharing	•	• Dark Fiber

Interface Device (NID)			
•	•	•	• Enhanced Extended Links (EELs)
•	•	•	• Entrance Facilities

*UNE categories in bold indicate UNEs that are subject to manual ordering processing procedures per GTE's Nonrecurring Cost Study.