



ORIGINAL

Florida Cable Telecommunications Association

Steve Wilkerson, President

VIA HAND DELIVERY

March 1, 2002

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

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RE: Docket No. 000075-TP

Dear Ms. Bayo:

Enclosed for filing in the above docket are the original and 15 copies of the Florida Cable Telecommunications Association's Direct Testimony of William J. Barta with Exhibit WJB-1 attached.

Copies of the Direct Testimony 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

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CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a true and correct copy of the foregoing Florida Cable Telecommunications Association's Direct Testimony of William J. Barta in Docket 000075-TP has been furnished by U.S. Mail delivery this 15th day of March, 2002:

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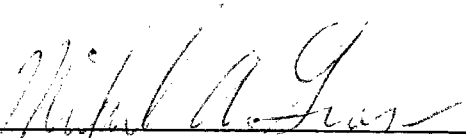
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**BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION
TALLAHASSEE, FLORIDA
DIRECT TESTIMONY OF
WILLIAM J. BARTA
MARCH 1, 2002
DOCKET NO. 000075-TP**

10 **Q. Please state your name and business address.**

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

13
14 **Q. What is your occupation?**

15 A. I am the founder of Henderson Ridge Consulting, Inc., a regulatory consulting firm. The
16 firm's practice focuses on the technical and policy issues confronting the regulatory
17 authorities overseeing the competitive developments occurring within the
18 telecommunications and electric utility industries.

19
20 **Q. Please provide a summary of your education and professional experience.**

21 A. I graduated in 1978 from The Lindenwood Colleges where I received a Bachelor of Arts
22 degree, cum laude, with a study emphasis in accounting. After working for nearly two
23 years as a staff accountant in private industry, I enrolled in the graduate business program
24 at Emory University and, in 1982, received my Masters of Business Administration with
25 concentrations in finance and marketing.

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After graduating from Emory University in 1982, I joined the Bell System as an Account Executive. In 1983, I transferred to AT&T Communications where I provided a broad range of accounting regulatory support functions to the nine state Southern Region.

From 1986 through 1988, I held various positions in the regulatory departments of Contel Corporation, an independent local exchange carrier. My responsibilities ranged from tariff support to ratemaking and rate design issues to line of business feasibility studies.

In April 1988, I joined the firm of J. Kennedy and Associates, Inc., a regulatory and economic consulting firm. As a Manager at Kennedy and Associates, I directed or supported the ratemaking investigations of major telecommunications and electric utilities. My work covered rate design, revenue requirements analysis, and the determination of the appropriate cost of capital and other issues associated with traditional rate base/rate of return regulation.

Since the passage of The Telecommunications Act of 1996, I have participated in numerous regulatory proceedings initiated in response to the Act's pro-competitive mandates. The policy and technical issues addressed in these proceedings include universal service and access charge reform, interim and permanent pricing for local interconnection and unbundled network elements, avoided retail cost studies for resale purposes, evaluation of local number portability cost studies, assessment of Contract Service Arrangements, collocation cost analysis, reciprocal compensation for intercarrier local exchange traffic, and the mediation of joint use pole disputes.

Q. Do you hold any professional certifications?

1 A. Yes. I am a Certified Public Accountant with an active license to practice in the State
2 of Georgia. Exhibit No. WJB-1 provides more detailed information on my experience.

3
4 **Q. On whose behalf are you testifying in this proceeding?**

5 A. I am testifying on behalf of the Florida Cable Telecommunications Association (“the
6 FCTA”).

7
8 **Q. What is the purpose of your testimony?**

9 A. The purpose of my testimony is to address the questions raised by the Commission in
10 Issue No. 17 in its January 31, 2002 Second Order on Procedure, Schedule and Issues for
11 Phase II of the instant docket. The questions posed in Issue No. 17 deal with the
12 Commission’s concerns over intercarrier compensation.

13
14 **Q. Please summarize your testimony.**

15 A. The Order on Remand and Report and Order (“ISP Remand Order”) released by the
16 Federal Communications Commission (“the FCC”) on April 27, 2001 raises a cloud of
17 regulatory uncertainty in this proceeding. In the ISP Remand Order, the FCC asserted
18 its jurisdiction over ISP-bound traffic by declaring such traffic to be interstate
19 information access traffic under Section 251(g). The FCC promulgated rules to
20 implement a three-year phase-out of the existing reciprocal compensation arrangements
21 for ISP-bound traffic using rate and volume caps. Since the ISP Remand Order is
22 currently on appeal at the U.S. District Court for the District of Columbia, the Florida
23 Public Service Commission (“the Commission” or “the Florida Commission”) does not
24 need to address the issue of the appropriate compensation mechanism for ISP-bound
25 traffic at this time.

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The Commission should require that a reciprocal compensation mechanism be used to govern intercarrier compensation of the local exchange traffic that remains under its jurisdiction. The reciprocal compensation arrangement should be based upon symmetrical rates that reflect the incumbent local exchange carriers' ("ILECs") Total Element Long Run Incremental Costs ("TELRIC") as approved by the Commission.

The Commission's interest in adopting a bill and keep arrangement as a default mechanism should be tempered by the narrow situations in which the arrangement may be effective. Bill and keep arrangements may hold the advantage of reduced transactions costs for the interconnecting carriers over other compensation regimes in limited circumstances; namely, where the traffic flow between the carriers is approximately equal and their cost structures are essentially the same. But even where interconnecting carriers have expected these unique traffic and cost conditions to prevail, experience has proven that the administrative burdens of bill and keep are excessive.

The potential disadvantages of bill and keep far outweigh the possible benefit of lower carrier transaction costs. Both the ILECs and the alternative local exchange carriers ("ALECs") will incur new administrative and marketing costs if the Commission decides to move to a bill and keep arrangement. Bill and keep will also foster market uncertainty as its financial impact on ALECs remains unknown until it is in effect. Bill and keep could potentially spawn new incentives to engage in regulatory gamesmanship as carriers attempt to design their networks to unload the traffic originating on their networks as quickly as possible and to accept terminating traffic as late as possible.

1 But most importantly, bill and keep allows the incumbent LECs the opportunity to
2 exercise their superior bargaining strength. BellSouth and Verizon overwhelmingly
3 support the move to a bill and keep regime. Based upon these dominant firms'
4 preference for a bill and keep arrangement, the Commission's proposed default
5 mechanism would cast a certain chill on the give and take that typically characterizes
6 arms-length negotiations. Indeed, it is highly likely that the incumbent LECs will be
7 tough "negotiators," secure in the knowledge that a bill and keep regime is the ultimate
8 regulatory remedy to resolve any impasse between the parties.

9
10 **Q. Should the Commission establish compensation mechanisms governing the**
11 **transport and delivery or termination of traffic subject to Section 251 of the**
12 **Act to be used in the absence of the parties reaching agreement or**
13 **negotiating a compensation mechanism? If so, what should be the**
14 **mechanism (Issue No. 17)?**

15 A. Yes. The Commission should continue its policy of requiring reciprocal compensation
16 for the local traffic (i.e. non-ISP-bound traffic) that remains under its jurisdiction. The
17 current Commission's rules require that symmetrical rates, based upon the ILECs'
18 Commission-approved unbundled network element rates, serve as the default reciprocal
19 compensation mechanism.

20
21 The response to this question should also make note of the provisions of the FCC's ISP
22 Remand Order that is currently under appeal before the U.S. District Court for the
23 District of Columbia. As of June 14, 2001, the effective date of the ISP Remand Order,
24 State regulatory authorities, including the Florida Commission, no longer have
25

1 jurisdiction to establish any form of intercarrier compensation for ISP-bound traffic. The
2 FCC asserted its jurisdiction over ISP-bound traffic by declaring such traffic to be
3 interstate information access traffic under Section 251(g) of the 1996 Act.
4

5 **Q. What rules govern intercarrier compensation for ISP-bound traffic under the**
6 **FCC's ISP Remand Order?**

7 A. The FCC has implemented a transitional cost recovery mechanism based upon declining
8 rate caps and volume caps. For the first six months following the effective date of its
9 Order, intercarrier compensation of ISP-bound traffic is capped at a rate of \$.0015 per
10 minute-of-use. For the subsequent eighteen months, the rate is capped at \$.0010 per
11 minute-of-use. Starting in the twenty-fifth month and continuing through the thirty-sixth
12 month, the rate will be capped at \$.0007 per minute-of-use.
13

14 A volume cap will also be imposed on total ISP-bound minutes for which a local
15 exchange carrier may receive the transitional compensation levels. The FCC established
16 a ceiling for 2002 on the ISP-bound minutes-of-use eligible for compensation. The
17 ceiling reflects a ten-percent growth factor based upon the number of ISP-bound minutes
18 recorded by the carrier during the first quarter of 2001. In 2003, a carrier may receive
19 compensation for ISP-bound minutes up to the level of the 2002 minutes-of-use ceiling.
20

21 **Q. How does the FCC distinguish ISP-bound traffic from the rest of a carrier's local**
22 **exchange traffic?**

23 A. The FCC arbitrarily defined ISP-bound traffic under the rebuttable presumption where
24 any traffic exchanged between carriers that exceeds a 3:1 ratio of terminating to
25 originating traffic is ISP-bound traffic subject to the transitional compensation scheme.

1 **Q. What initiatives should the Florida Commission take in this docket in light of the**
2 **provisions of the ISP Remand Order?**

3 A. The Florida Commission need not take any further action in this docket to establish a
4 compensation mechanism for ISP-bound traffic.

5
6 **Q. What form of intercarrier compensation should the Florida Commission establish**
7 **for all other (i.e. non-ISP-bound) local traffic?**

8 A. The Commission should require that a reciprocal compensation mechanism be used to
9 govern intercarrier compensation of the local exchange traffic that remains under its
10 jurisdiction in the event carriers do not successfully negotiate an agreement for the
11 transport and termination of such traffic. The reciprocal compensation arrangement
12 should be based upon symmetrical rates that reflect the incumbent LEC's costs;
13 specifically, the rates found in the Total Element Long Run Incremental Cost studies
14 approved by the Commission.

15
16 **Q. Does the Commission have jurisdiction to establish bill and keep (Issue No. 17a)?**

17 A. Yes, but only with respect to non-ISP-bound local traffic. State regulatory authorities
18 may order a bill and keep arrangement under certain circumstances for non-ISP-bound
19 local traffic. The Commission can establish bill and keep if neither carrier has rebutted
20 the presumption of symmetrical rates and if the flow of traffic between the carriers'
21 networks is approximately equal (and is expected to remain so). It is noteworthy that
22 under a State imposed bill and keep regime, compensation obligations of the parties must
23 be revisited and imposed in the event the flow of traffic between the carriers' networks
24 becomes significantly out of balance. Thus, the Commission's authority to implement
25

1 a bill and keep arrangement does not appear to extend to those circumstances where the
2 exchange of traffic is not balanced between the interconnecting carriers' networks.

3

4 **Q. What is the potential financial impact, if any, on ILECs and ALECs of bill and keep**
5 **arrangements (Issue No. 17b)?**

6 A. Aside from the unnecessary additional administrative and marketing costs that the change
7 to a bill and keep arrangement would likely introduce, such a compensation mechanism
8 fails to recognize that the costs an ALEC incurs to transport and terminate a call are very
9 real. The shift to a bill and keep arrangement will not relieve the ALEC of the
10 responsibility to terminate the call that the ILEC's customer originates. More
11 importantly, the shift to a bill and keep arrangement does not mean the ALEC's cost of
12 terminating the traffic that has been originated on the ILEC's network has decreased or
13 disappears simply because there is no explicit compensation for the carriage of traffic
14 between the carriers.

15

16 As long as the cost of terminating traffic is positive, a bill and keep arrangement will not
17 adequately provide for the recovery of an ALEC's costs unless the flow of traffic
18 between the carriers' networks is approximately equal. The potential financial impact
19 upon an ALEC could be materially detrimental, as it will no longer receive the revenue
20 earned for transporting and terminating the local traffic originated by the ILEC's
21 customer.

22

23 **Q. You mentioned additional administrative and marketing costs in your response.**
24 **Why will a shift to bill and keep cause carriers to incur these extra costs?**

25

1 A. The move from a reciprocal compensation arrangement to a bill and keep mechanism
2 poses a major change in intercarrier compensation rules for both the ILECs and the
3 ALECs. One should expect such a change to be accompanied by a new set of costs.
4 These costs may very well include, but are not limited to, the expense of participating in
5 more intercarrier compensation proceedings, the need to renegotiate (and possibly
6 arbitrate) interconnection agreements, and the effort to develop and implement new retail
7 pricing programs that are in response to regulatory, not competitive market, forces.
8

9 **Q. What potential financial impact may the ILECs anticipate under a bill and keep
10 regime?**

11 A. The ILECs can expect to enjoy an immediate stream of cash flow because they no longer
12 have the obligation to compensate the ALECs for terminating calls that are originated on
13 their networks. Depending upon the magnitude of the terminating traffic imbalance, the
14 savings realized by the ILEC could be substantial. This is certainly true in view of the
15 FCC's decision to phase-out payments under the reciprocal compensation for ISP-bound
16 traffic.
17

18 **Q. If the Commission imposes bill and keep as a default mechanism, will the
19 Commission need to define generically "roughly balanced?" If so, how should the
20 Commission define "roughly balanced?" (Issue No. 17c)**

21 A. The provisions of the ISP Remand Order have complicated the task of determining traffic
22 flow balances or imbalances between interconnecting carriers. Notwithstanding that it
23 is not currently possible to reliably or accurately identify ISP-bound calls from other
24 forms of local traffic, the FCC has arbitrarily defined the ISP-bound calls that are to be
25 compensated for under its transitional reciprocal compensation scheme. It is the

1 carriers' remaining non-ISP-bound local traffic that the Florida Commission must
2 measure for "roughly balanced" traffic loads.

3
4 One approach to defining a "roughly balanced" exchange of traffic between
5 interconnecting carriers is to place a percentage threshold on the difference in traffic
6 flows in the two directions. An alternative approach would be to establish a dollar
7 threshold where a carrier would not be obligated to compensate the interconnecting
8 carrier unless the net minutes-of-use for terminating traffic resulted in a dollar amount
9 that exceeded the prescribed threshold.

10
11 But working with a materiality threshold has proven to be a daunting challenge in
12 practice. Some interconnecting ALECs and ILECs have entered into bill and keep
13 arrangements that included a percentage or dollar threshold as part of the agreement.
14 Experience has shown that the administrative burden of keeping up with the flow of
15 traffic and calculating offsetting payments has outweighed the costs of each carrier
16 billing for actual minutes-of-use.

17
18 Furthermore, in response to the FCC's rules and the ILECs' preference for a reciprocal
19 compensation regime, most ALECs have invested in and implemented billing systems
20 in order to track and bill for actual minutes-of-use. Since sophisticated billing systems
21 are already in existence, it would seem to make little sense now to abandon their
22 capability.

23
24 **Q. How frequently should the traffic flow between the carriers be reviewed to ensure**
25 **the exchange of traffic remains "roughly balanced?"**

1 A. In the event that the Florida Commission elects to adopt a bill and keep arrangement, the
2 non-ISP-bound local traffic flows between interconnecting carriers should be measured
3 as accurately as possible for each six month period the interconnection agreement
4 remains in effect. If large traffic imbalances between the carriers persist, the
5 Commission may wish to reconsider its decision to adopt a bill and keep regime or
6 implement a true-up mechanism to alleviate the financial burden of the disadvantaged
7 carrier.

8

9 **Q. What potential advantages or disadvantages would result from the imposition of**
10 **bill and keep arrangements as a default mechanism, particularly in comparison to**
11 **other mechanisms already presented in Phase II of this docket (Issue No. 17d)?**

12 A. The advantages of a bill and keep regime are limited to those circumstances where
13 payments between the interconnecting carriers are expected to be offset as a result of a
14 balance in the exchange of traffic and/or the respective costs that the carriers incur in
15 transporting and terminating traffic. That is, if the carriers exhibit the same cost
16 structures (an unlikely occurrence), then a balanced traffic flow between the
17 interconnecting networks should result in an offset of payments from one party to the
18 other. An uneven flow of traffic can still result in an offset of payments provided it
19 happens that just the exact differential between the carriers' costs exists (yet another
20 unlikely coincidence). Bill and keep arrangements, under these limited circumstances,
21 may reduce each carrier's transaction costs. The probability of maintaining such a
22 perfect balance between each carrier's traffic patterns and cost structures for any duration
23 is most likely remote.

24

25

1 One would expect that the carriers would recognize where a bill and keep arrangement
2 is more efficient and would reach such an agreement without the need for regulatory
3 intervention. Therefore, it seems that the most logical default intercarrier compensation
4 mechanism continues to be reciprocal compensation.
5

6 **Q. What are some of the potential disadvantages you foresee with a decision to**
7 **implement a bill and keep arrangement as a default mechanism?**

8 A. Several disadvantages are likely to stem from a Commission decision to rely upon a
9 bill and keep arrangement as a default mechanism. As noted in an earlier response,
10 there will be new administrative and marketing costs for the ILECs and ALECs. A
11 shift to a bill and keep regime will also foster market uncertainty that carries its own
12 set of cost burdens. In addition, a bill and keep arrangement creates a new incentive
13 to engage in regulatory gamesmanship in the form of inefficient network design. But
14 most importantly, bill and keep arrangements play right into the hands of the superior
15 bargaining power that the dominant industry players – the incumbent LECs -- hold.
16

17 **Q. What are your concerns with respect to heightened market uncertainty if the**
18 **Commission should adopt a bill and keep arrangement as a default mechanism?**

19 A. The move to a bill and keep arrangement can contribute to market uncertainty because
20 the magnitude of the decision's impact upon the ALECs' financial viability cannot be
21 determined until the regime is in effect. If competitive carriers are unable to timely and
22 successfully react to a regulatory mandated change in the traditional form of
23 compensation for the exchange of traffic, then there will be fewer competitors left to
24 participate in this segment of the market. Although there are no guarantees of financial
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success in the competitive telecommunications markets, the strength and versatility of the competition emerging in these markets depends upon regulators to consistently send the right pricing and investment signals to the industry participants.

Q. What compensation mechanism sends the right pricing and compensation signals to incumbent carriers and new market entrants?

A. A reciprocal compensation mechanism using symmetrical rates based upon the incumbent LECs' forward-looking costs is the appropriate regulatory tool to encourage competition and innovation. The FCC recognized the merits of this pricing standard and wisely adopted it to establish the rates for interconnection and unbundled elements:

“Because a pricing methodology based on forward-looking costs simulates the conditions in a competitive marketplace, it allows the requesting carrier to produce efficiently and to compete effectively, which should drive retail prices to their competitive levels. We believe that our adoption of a forward-looking cost-based pricing methodology should facilitate competition on a reasonable and efficient basis by all firms in the industry by establishing prices for interconnection and unbundled elements based on costs similar to those incurred by the incumbents, which may be expected to reduce the regulatory burdens and economic impact of our decision for many parties, including both small entities seeking to enter the local exchange market and small incumbent LECs” (Local Competition Order, paragraph 679).

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The competitive philosophy embraced in the FCC’s TELRIC pricing standards have been borne out as ALECs have introduced efficient network designs to lower the costs of terminating traffic and have found innovative ways to satisfy the communications needs of customers. This competitive outcome should be applauded as a marketplace success and not held out as an example of inefficient regulatory arbitrage. The Florida Commission should continue its sound reasoning to implement a reciprocal compensation mechanism for interconnection using symmetrical rates based upon the ILECs’ forward-looking costs.

Q. What forms of regulatory gamesmanship does a bill and keep arrangement encourage?

A. Under a bill and keep arrangement, carriers will search for ways to unload the traffic originating on their networks as quickly as possible and to accept terminating traffic as late as possible. For instance, the strategic placement of central offices further out in the network can affect a carrier’s costs under bill and keep regardless of whether it represents efficient network design practices. In addition, the concern over regulatory arbitrage may shift from carriers seeking an imbalance in terminating traffic to one where carriers target large net originators of traffic. Not only may bill and keep influence the carrier to base its network strategy upon concerns for regulatory treatment rather than concerns for the most economically efficient configuration, such an arrangement may invite new opportunities for regulatory arbitrage.

Q. Why do you believe that adopting a bill and keep arrangement as a default mechanism can tip the bargaining position in favor of the incumbent LEC

1 **if carriers engage at the outset among themselves to negotiate the rates for**
2 **interconnection?**

3 A. There should be little argument that arms-length contracts negotiated between two
4 private parties offer far greater benefits and advantages than commercial relationships
5 mandated through government regulation. In fact, key sections of the 1996 Act are
6 geared towards encouraging negotiations between private parties over State and/or
7 federal rate regulation.

8
9 But the ALECs' ability to fairly negotiate rates for the exchange of local traffic with the
10 incumbent carriers is compromised because of the ILECs' status as the dominant player
11 in the industry. These concerns over the ILECs' bargaining strength cannot simply be
12 dismissed as the unfounded fears of a group of small carriers seeking regulatory relief for
13 their own competitive shortcomings.

14
15 Indeed, the FCC recognized the incumbent LECs' superior bargaining power in the Local
16 Competition Order when it comes to the matter of establishing rates for interconnection
17 with competitive carriers:

18 **“Negotiations between incumbent LECs and new entrants are not**
19 **analogous to traditional commercial negotiations in which each party**
20 **owns or controls something the other party desires. Under section**
21 **251, monopoly providers are required to make available their**
22 **facilities and services to requesting carriers that intend to compete**
23 **directly with the incumbent LEC for its customers and its control of**
24 **the local market. Therefore, although the 1996 Act requires**
25 **incumbent LECs, for example, to provide interconnection and access**

1 to unbundled elements on rates, terms, and conditions that are just,
2 reasonable, and nondiscriminatory, incumbent LECs have strong
3 incentives to resist such obligations. The inequality of bargaining
4 power between incumbents and new entrants militates in favor of
5 rules that have the effect of equalizing bargaining power in part
6 because many new entrants seek to enter national or regional
7 markets” (Local Competition Order, paragraph 55).

8
9 In order to deter the ability of the ILECs from engaging in anti-competitive behavior by
10 exercising their superior bargaining position in their negotiations with ALECs, the
11 Commission should adopt an equitable reciprocal compensation mechanism based upon
12 symmetrical rates.

13
14 **Q. What outcome would you expect to result from the carriers’ interconnection**
15 **negotiations should the Commission adopt bill and keep as a default mechanism?**

16 **A.** BellSouth and Verizon overwhelmingly support the change from reciprocal
17 compensation to a bill and keep arrangement for the exchange of local traffic. Based
18 upon the dominant firms’ preference for a bill and keep arrangement, any
19 characterization that the mechanism is merely a “default” regime ignores the reality of
20 negotiations where the parties’ objectives are clearly conflicting. In the end, I would
21 expect the incumbent LECs to be tough “negotiators” and resist the offers of the ALECs
22 to craft more equitable and efficient interconnection agreements based upon the
23 knowledge that a default bill and keep arrangement is the regulatory remedy to resolve
24 the impasse.

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1 **Q. Does this conclude your testimony?**

2 A. Yes.

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WILLIAM J. BARTA
President, Henderson Ridge Consulting, Inc.

EDUCATION

| | |
|--|-------------------------|
| Emory University | M.B.A. (1982) |
| Marketing and Finance | |
| The Lindenwood Colleges | B.A. with Honors (1978) |
| Business Administration and Accounting | |

PROFESSIONAL CERTIFICATION

Certified Public Accountant

PROFESSIONAL AFFILIATIONS

American Institute of Certified Public Accountants
Georgia Society of Certified Public Accountants

EMPLOYMENT HISTORY

| | | |
|----------------|----------------------------|--|
| 1996 - present | Henderson Ridge Consulting | President and Founder |
| 1988 - 1995: | J. Kennedy and Associates | Manager |
| 1986 - 1988: | Contel Corporation | Financial Planning Coordinator |
| 1982 - 1986: | AT&T | Financial Analyst and Account Executive |
| 1981 | Simmons, U.S.A. | Special Projects Staff (summer internship) |
| 1979 - 1980: | Gould, Inc. | Senior Accountant |
| 1978 - 1979: | SCNO Barge Lines, Inc. | Staff Accountant |

REPRESENTATIVE EXPERIENCE

The Telecommunications Act of 1996:

Addressed policy and technical issues in regulatory proceedings initiated in response to the pro-competitive mandates of the 1996 Act. Subject areas include universal service and access charge reform, interim and permanent pricing for local interconnection and unbundled network elements, avoided retail cost studies for resale purposes, evaluation of local number portability cost studies, assessment of Contract Service Arrangements, and mediation of joint use pole disputes.

Management Audits:

Conducted comprehensive and focused management audits of a major electric investor owned utility, a generation and transmission electric cooperative, distribution electric cooperatives, a Bell Operating Company, and independent local exchange carriers.

Merger Evaluations:

Evaluated the administrative and operational synergies projected in a merger between two electric investor owned utilities and the level of savings and operational efficiency to be achieved from the combination of separate subsidiaries within a Bell Regional Holding Company.

Demand Side Management Program Analyses:

Performed a comprehensive review of the assumptions used in the development of proposed Demand Side Management ("DSM") programs and the benefit/cost ratios of implementing proposed DSM programs as determined by standard regulatory tests. Of particular interest was the nonregulated revenue potential resulting from a load management program designed to achieve spinning reserve status by providing real time communications between the residential customer and the operating dispatch center.

Affiliate Transactions Reviews:

Conducted extensive cost allocation studies and transaction audits of a Bell Regional Holding Company's and independent telephone companies' affiliate transactions, the sale of an electric utility's generating facilities to (and subsequent participation in) a joint venture between the utility and three of its largest industrial customers, the integrated sale of an electric utility's mining operation and long-term coal purchase agreement, the provisions under which a nonregulated subsidiary of an electric utility would market the excess telecommunications capacity of a Demand Side Management program, and the potential cross-subsidy of a regulated electric utility's non-regulated telecommunications operations.

Accounting and Finance Investigations:

Performed comprehensive earnings investigations and revenue requirements studies of AT&T, a Bell Operating Company, independent local exchange carriers, electric investor owned utilities, a generation and transmission electric cooperative, and electric distribution cooperatives.

Expert Testimony Appearances

| <u>Date</u> | <u>Case No.</u> | <u>Jurisdiction</u> | <u>Company</u> | <u>Subject Matter</u> |
|--------------|---------------------|---------------------|--|---|
| July 1989 | 333-272 | Louisiana | South Central Bell Telephone & Telegraph | Realized and projected rates of return. |
| August 1989 | U-17970 | Louisiana | AT&T Communications | Earnings investigation, network modernization, and alternative regulation. |
| October 1989 | U-17282 | Louisiana | Gulf States Utilities | Operating expense analysis and nonregulated joint venture evaluation. |
| January 1990 | U-17282 | Louisiana | Gulf State Utilities | Regulatory treatment of gain on sale of utility property. |
| July 1991 | 4004-U | Georgia | GTE Telephone | Network modernization and depreciation represcription. |
| October 1991 | U-17282 | Louisiana | Gulf States Utilities | Results of comprehensive management audit. |
| Dec. 1992 | U-17949 Subdocket A | Louisiana | South Central Bell Telephone and Telegraph | Network technology and modernization and construction program evaluation. |
| Dec. 1992 | U-19904 | Louisiana | Entergy/Gulf States | Non-fuel O&M merger related synergies. |
| March 1993 | 93-01-E1 EFC | Ohio | Ohio Power Company | Accounting and regulatory treatment of the sale of an affiliate's investment. |

Expert Testimony Appearances - continued

| <u>Date</u> | <u>Case No.</u> | <u>Jurisdiction</u> | <u>Company</u> | <u>Subject Matter</u> |
|--------------|---------------------|---------------------|-------------------------------------|--|
| March 1993 | U-19994 | Louisiana | Entergy/Gulf States | Merger related synergies. |
| August 1993 | U-19972 | Louisiana | Ringgold Telephone Company | Earnings investigation, network modernization, and construction program. |
| October 1993 | U-17735 | Louisiana | Cajun Electric Power | Earnings investigation. |
| May 1994 | U-20178 | Louisiana | Louisiana Power & Light Company | Analysis of Least Cost Integrated Resource Plan and Demand Side Management programs. |
| October 1994 | 5258-U | Georgia | Southern Bell Telephone & Telegraph | Price regulation and incentive rate plan review. |
| June 1995 | 3905-U | Georgia | Southern Bell Telephone & Telegraph | Rate design and alternative regulation. |
| June 1996 | 96-02-002 | California | Pacific Bell Telephone & Telegraph | ISDN TSLRIC study evaluation |
| August 1996 | U-22020 (Direct) | Louisiana | BellSouth Telecomm. Inc. | Avoided retail cost study |
| Sep. 1996 | U-22020 (Rebuttal) | Louisiana | BellSouth Telecomm. Inc. | Avoided retail cost study |
| Oct. 1997 | 97-01262 (Direct) | Tennessee | BellSouth Telecomm. Inc. | Permanent pricing for local interconnection and UNEs |
| Oct. 1997 | 97-01262 (Rebuttal) | Tennessee | BellSouth Telecomm. Inc. | Permanent pricing for local interconnection and UNEs |

Expert Testimony Appearances - continued

| | | | | |
|-----------|--------------------------------------|----------------|--|--|
| Nov. 1997 | 97-00888 | Tennessee | | Universal service policy issues |
| Dec. 1997 | P-100, Sub 133b | North Carolina | | Universal service FLEC models |
| Dec. 1997 | P-100, Sub 133d | North Carolina | | Permanent pricing for local interconnection and UNEs |
| Jan. 1998 | P-100, Sub 133b (Rebuttal) | North Carolina | | Universal service FLEC models |
| Mar. 1998 | P-100, Sub 133d (Rebuttal) | North Carolina | | Permanent pricing for local interconnection and UNEs |
| Mar. 1998 | P-100, Sub 133g | North Carolina | | Universal service policy issues |
| Mar. 1998 | 97-07488 (Direct) | Tennessee | Electric Power Board of Chattanooga | Affiliate transactions |
| Aug. 1998 | 980696-TP (Direct) | Florida | | Universal service FLEC models |
| Sep. 1998 | 980696-TP (Rebuttal) | Florida | | Universal service FLEC models |
| Sep. 1998 | U-22252, Subdocket D (Initial) | Louisiana | | Avoided retail cost study for CSAs/SBAs |
| Sep. 1998 | 97-07488 (Rebuttal) | Tennessee | Electric Power Board of Chattanooga | Affiliate transactions |

Expert Testimony Appearances - continued

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|-------------|-----------------------------------|------------------------------------|-------------------------------|--|
| Sep. 1998 | U-22252 Subdocket D (Final) | Louisiana | BellSouth | Avoided retail cost study for CSAs/SBAs |
| July 1999 | 10288-U | Georgia | Accucomm Telecomm, Inc. | Compliance audit results and affiliate transactions |
| August 1999 | 990649-TP | Florida (Direct) | | Unbundled network element policy issues |
| Sep. 1999 | 990649-TP | Florida (Rebuttal) | | Unbundled network element policy issues |
| March 2000 | 99-00909 | Tennessee (Direct) | Memphis Light, Gas & Water | Affiliate transactions |
| March 2000 | U-24714 | Louisiana (Direct) | BellSouth | Interim, deaveraged rates for unbundled network elements |
| June 2000 | 990649-TP | Florida (Direct) | | Unbundled network element technical issues |
| July 2000 | 990649-TP | Florida (Rebuttal) | | Unbundled network element technical issues |
| August 2000 | P-100, Sub 133d | North Carolina | | Unbundled network element policy and technical issues |
| August 2000 | 990649-TP | Florida (Supplemental Rebuttal) | | Unbundled network element technical issues |
| Nov 2000 | 00-00523 | Tennessee (Direct) | | Rural universal service policy and technical issues |
| Nov 2000 | 00-00523 | Tennessee (Rebuttal) | | Rural universal service policy and technical issues |

Expert Testimony Appearances – continued

| | | | | |
|------------|----------|--------------------------|-------------------------------|------------------------|
| Dec 2000 | 99-11035 | Nevada (Direct) | | Collocation rates |
| March 2001 | 99-00909 | Tennessee (Rebuttal) | Memphis Light, Gas & Water | Affiliate transactions |
| April 2001 | 99-11035 | Nevada (Supplemental) | | Collocation rates |