

Michael W. Tye Sr. Attorney

November 13, 1995



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

Re: Docket No. 950985A-TP

Dear Mrs. Bayo:

Enclosed for filing in the above referenced docket are an original and fifteen (15) copies of the Direct Testimony of Mike Guedel on behalf of AT&T Communications of the Southern States, Inc.

Copies of the foregoing are being served on all parties of record in accordance with the attached Certificate of Service.

Yours truly,

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Attachments

J. P. Spooner, Jr.

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Parties of Record

cc:

to teste se GLC I VIA:

OTH \_\_\_\_

DOCUMENT NUMBER-DATE

#### CERTIFICATE OF SERVICE

#### DOCKET NO. 950985A-TP

I HEREBY CERTIFY that a true copy of the foregoing has been furnished by next day express mail, U. S. Mail or hand-delivery to the following parties of record this <u>1314</u> day of <u>November</u>, 1995.

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Michael W. Ty



## BEFORE THE

### FLORIDA PUBLIC SERVICE COMMISSION

IN RE: RESOLUTION OF PETITION(S) ) TO ESTABLISH ) NONDISCRIMINATORY RATES, ) TERMS, AND CONDITIONS ) FOR INTERCONNECTION ) INVOLVING LOCAL EXCHANGE ) COMPANIES AND ALTERNATE ) LOCAL EXCHANGE COMPANIES ) PURSUANT TO SECTION ) 364.162, FLORIDA STATUTES )

DOCKET NO. 950985A-TP

DIRECT TESTIMONY OF

MIKE GUEDEL

ON BEHALF OF AT&T COMMUNICATIONS

OF THE SOUTHERN STATES, INC.

NOVEMBER 13, 1995

DOCUMENT NUMBER-DATE

1 Q.

WILL YOU PLEASE IDENTIFY YOURSELF?

2 My name is Mike Guedel and my business address 3 Α. is AT&T, 1200 Peachtree Street, NE, Atlanta, 4 Georgia, 30309. I am employed by AT&T as 5 Manager-Network Services Division. 6 7 8 PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND AND 9 0. WORK EXPERIENCES. 10 11 I received a Master of Business Administration 12 Α. with a concentration in Finance from Kennesaw 13 State College, Marietta, GA in 1994. 14 I received a Bachelor of Science degree in 15 Business Administration from Miami University, 16 Oxford, Ohio. Over the past years, I have 17 18 attended numerous industry schools and seminars covering a variety of technical and regulatory 19 issues. I joined the Rates and Economics 20 Department of South Central Bell in February of 21 1980. My initial assignments included cost 22 analysis of terminal equipment and special 23 assembly offerings. In 1982, I began working 24 on access charge design and development. From 25

May of 1983 through September of 1983, as part 1 of an AT&T task force, I developed local 2 transport rates for the initial NECA interstate 3 filing. Post divestiture, I remained with 4 South Central Bell with specific responsibility 5 for cost analysis, design, and development 6 relating to switched access services and 7 intraLATA toll. In June of 1985, I joined 8 AT&T, assuming responsibility for cost analysis 9 of network services including access charge 10 impacts for the five South Central States 11 (Alabama, Kentucky, Louisiana, Mississippi, and 12 13 Tennessee). 14 15 PLEASE DESCRIBE YOUR CURRENT RESPONSIBILITIES. 16 Q. 17 My current responsibilities include directing 18 Α. analytical support activities necessary for 19 intrastate communications service in Florida 20 This includes and other southern states. 21 detailed analysis of access charges and other 22 LEC filings to assess their impact on AT&T and 23 its customers. In this capacity, I have 24 represented AT&T through formal testimony 25

1 before the Florida Public Service Commission, 2 as well as regulatory commissions in the states of South Carolina and Georgia. 3 4 5 6 WHAT IS THE PURPOSE OF YOUR TESTIMONY? Q. 7 8 A. The purpose of my testimony is twofold: 9 First, I will describe in a generic sense the 10 characteristics of interconnection and 11 collocation arrangements that are necessary to 12 provide inter-carrier connections that are both 13 technically efficient and economically 14 sensible, and thus competitively effective. 15 16 Second, I will specifically address the issue 17 of mutual compensation associated with call 18 completion as described in the petition and 19 testimony of Continental Cablevision, Inc., 20 (Continental) and I will recommend a 21 compensation arrangement that is consistent 22 with the generic principles discussed above. 23 24 25

- 1 Q. WHAT IS MEANT BY THE TERM INTERCONNECTION?
- 2

Interconnection refers to the act of linking 3 Α. 4 two networks together such that calls or 5 messages that originate on one of the networks 6 may transit or terminate on the other network. 7 Traditionally, in the switched environment, 8 interconnection has taken place on either the line-side or the trunk-side of a local exchange 9 10 company's switch. Typical interconnection 11 arrangements have included switched access, 12 cellular interconnection, Enhanced Service 13 Provider(ESP) interconnection, and the interconnection of end user Customer Provided 14 15 Equipment (CPE) through local service 16 arrangements.

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18 In the implementation of local competition, these traditional types of interconnection will 19 still be useful, but may not be sufficient to 20 21 meet the all of the needs of all potential 22 interconnectors. A more open or "unbundled" 23 set of interconnection options and 24 interconnection architectures will need to be made available. 25

- 1 Q. WOULD YOU DESCRIBE WHAT YOU MEAN BY "UNBUNDLED" 2 INTERCONNECTION ARRANGEMENTS?
- 3

Unbundling is the identification and Α. 4 disaggregation of useful components of the 5 local exchange network into a set of elements, 6 or Basic Network Functions (BNFs) which can be 7 individually provided, costed, priced, and 8 interconnected in such a manner as to provide 9 other telecommunications service offerings. 10 For example, local exchange service can be 11 "unbundled" into loops, local switching, and 12 transport. 13

14

AT&T has identified 11 components or BNFs 15 associated with local exchange services which 16 may be effectively and usefully unbundled. 17 These include: loop distribution, loop 18 concentration, loop feeder, switching, operator 19 systems, dedicated transport links, common 20 21 transport links, tandem switching, signaling links, signal transfer points, and signal 22 control points. 23

24

1 Further, it must be noted that the list of BNFs described above must not be considered static 2 3 or necessarily complete. Additional functional 4 elements may continue to be identified as 5 telecommunications technology evolves. 6 7 WOULD YOU DESCRIBE WHAT YOU MEAN BY 8 **Q**. 9 INTERCONNECTION ARCHITECTURES? 10 11 A. The two basic architectures for implementing 12 interconnection are physical and virtual 13 collocation. 14 15 Physical collocation is an arrangement whereby an interconnector leases floor space (and 16 17 access to floor space) within a LEC central 18 office for purposes of installing, maintaining 19 and managing telecommunications equipment used 20 in the provision of the interconnector's 21 service(s). Under this arrangement, the 22 interconnector can gain entry to its designated 23 space within the LEC central office (generally 24 with security escort) to install, maintain, and/or repair its own equipment. 25

1 Virtual collocation is an arrangement whereby 2 the local exchange company installs, maintains, 3 and repairs the interconnector's designated telecommunications equipment. Under this 4 arrangement, there is no segregated space 5 б rented by the interconnector. Rather, there 7 would be equipment designated to the interconnector in the central office, but the 8 9 actual location would be determined by the LEC. 10 The interconnector could maintain monitoring 11 and control ability, but would not be able to physically access the equipment within the 12 central office. 13 14 15 ARE THERE OTHER TYPES OF INTERCONNECTION 16 Q. 17 **ARRANGEMENTS?** 18 19 Yes, there are other types of interconnection Α. 20 where the actual point of interconnection is 21 not in a central office. These are generally 22 called "mid-span meets." In a mid-span meet

responsible for operating trunk facilities out
to some agreed upon point between central

23

arrangement, each carrier builds and is

offices. Another way of thinking about this 1 arrangement is that each carrier provides one 2 half of the circuit. Under such an arrangement 3 the carriers are jointly responsible for the Δ 5 traffic traversing the circuit. 6 In addition, there may be other interconnection 7 arrangements that LECs have used or that may be 8 useful to potential interconnectors. 9 10 11 WHAT ARE THE NECESSARY CHARACTERISTICS OF 12 Q. INTERCONNECTION NEEDED TO OFFER AN EFFECTIVE 13 AND EFFICIENT WAY OF PROMOTING LOCAL EXCHANGE 14 COMPETITION? 15 16 First, interconnection must be available at all 17 Α. technically and logically possible unbundled 18 interfaces to the LEC network. 19 20 Second, interconnection must be made available 21 to new carriers under the same rates, terms and 22 conditions as apply to the LECs own service. 23 24

1 Third, it is important that no restrictions be 2 placed on interconnection standards and offerings that would limit these requirements 3 4 to just the existing inventory of LEC network In order for interconnection to 5 functions. encourage the growth of competition over time, б 7 it must apply to all new LEC network services as they are developed. 8

10 Fourth, LECs must not be permitted to discriminate in any respect against new 11 12 entrants. Any discrimination in the interconnection of new entrants to LEC network 13 components vis-à-vis interconnection of the 14 LEC's own services - be it in the form of 15 delays in the offering of new arrangements, 16 inferior provisioning, installation or 17 maintenance of these arrangements, or 18 uneconomic pricing of these arrangements, will 19 20 thwart new competition.

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Furthermore, the compensation arrangements for interconnection must also allow for the maximum feasible development of local exchange competition. To do so, carrier compensation

1 arrangements should be nondiscriminatory and 2 tariffed at rates that accurately reflect 3 underlying costs. 4 5 б Q. HAS CONTINENTAL RAISED THESE GENERIC ISSUES OF 7 UNBUNDLING AND INTERCONNECTION ARCHITECTURES IN 8 ITS PETITION? 9 Apparently Continental believes that it Α. 10 No. 11 can achieve a mutually satisfactory agreement 12 with BellSouth on most of these issues. 13 14 The purpose of this section of testimony, 15 however, is to demonstrate the complexity of 16 the issues surrounding interconnection and the need for incumbent LECs to make available an 17 extensive variety of interconnection 18 19 arrangements if the development of competition 20 is to have any chance at all. 21 While it is imperative that BellSouth make 22 23 available to all potential entrants the same 24 interconnection arrangements that it is 25 offering to Continental, it must be recognized

that these arrangements may not be sufficient.
 In other words, the Continental arrangement
 must not be considered the generic solution to
 interconnection.

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- 6

Q. WHAT IS YOUR UNDERSTANDING OF THE RELIEF THAT
 CONTINENTAL IS SEEKING THROUGH ITS PETITION?
 9

A. Continental is seeking relief from the proposed
charges of BellSouth associated with call
termination. Call termination is the function
of receiving a call from an interconnecting
company at the terminating company's switch and
delivering the call to an end user customer (a
customer of the terminating company).

17

For example, assume that two companies are 18 offering competitive local telephone service in 19 a given geographic territory. One company is 20 the incumbent local exchange company (LEC) and 21 the other is an alternative local exchange 22 23 company (ALEC). Further assume that these companies have established interconnecting 24 facilities linking their respective switches. 25

1 When a customer of the ALEC places a call to a 2 customer of the LEC, the call is transmitted 3 over the interconnecting facility to the LEC 4 switch. Likewise when a customer of the LEC 5 places a call to a customer of the ALEC, the 6 call can be transmitted over the same interconnecting facility to the ALEC switch. 7 8 The function of call completion, in either 9 case, includes the reception of the call at the terminating company switch and the delivery of 10 11 the call to the end user customer. 12 13 14 WHY ARE THE CHARGES ASSOCIATED WITH THIS TYPE Q 15 OF CALL COMPLETION REFERRED TO AS "MUTUAL 16 COMPENSATION" ARRANGEMENTS? 17 18 Α. If competition develops, each of the competing 19 local service providers in a given territory 20 will serve a certain number of customers. In 21 order for each of these companies to offer 22 ubiquitous local service to their respective customers, each will have to rely on the 23 other(s) to complete calls, and each will 24 expect some form of compensation for completing 25

other companies' calls. "Mutual Compensation"
 refers to this interdependent need for call
 completions.

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# Q. WHAT ARE THE APPROPRIATE TERMS AND PRICES FOR 7 MUTUAL COMPENSATION ARRANGEMENTS?

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9 A. Initially, the best solution may be the "bill
10 and keep" arrangement. Under this arrangement
11 no dollars change hands. The compensation that
12 one company offers to another for the
13 completion of its calls is the agreement to
14 complete the other companies' calls in a like
15 manner.

16

17 The beauty of this arrangement is its 18 simplicity. There is no need for terminating 19 companies to measure delivered traffic. There 20 is no bill preparation or bill rendering involved, nor is there the need to review bills 21 22 for accuracy. Further, this arrangement can be 23 implemented without the development of cost 24 studies that would be required to establish and 25 justify specific prices.

This arrangement could be implemented very 2 quickly, and because the initial volumes of 3 interconnected traffic will be very small, it 4 should not burden any of the interconnecting 5 companies. 6 7 8 IS "BILL AND KEEP" A VIABLE LONG RUN SOLUTION? 9 Q. 10 It may be. If traffic deliveries are Α. 11 determined to be relatively balanced and the 12 costs are similar among LECs and ALECs, then a 13 bill and keep arrangement could work 14 indefinitely. 15 16 However, if effective competition for local 17 service does develop, and some of the 18 complications of measuring and billing and 19 costing are sorted out, then a more likely long 20 term scenario would include actual billing at 21 prices based upon the total service long run 22 incremental cost incurred in providing call 23 24 termination.

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This latter method would more likely ensure 1 that each company is accurately compensated for 2 the particular services that it provides. 3 4 5 IF THE COMMISSION DETERMINES THAT A RATE FOR б Q. CALL COMPLETION IS APPROPRIATE, AT WHAT LEVEL 7 SHOULD THE COMMISSION SET THE RATE? 8 9 The rates charged for call termination should 10 A. be set at the Total Service Long Run 11 Incremental Cost (TSLRIC) that the LEC incurs 12 in providing the service. No additional mark-13 up should be allowed. A LEC should be 14 15 permitted to recover the costs that it incurs in providing call termination arrangements, but 16 it should not be allowed to exact any 17 18 additional mark-up from potential competitors simply for the right to do business in its 19 20 territory. 21 22 WHY IS IT NECESSARY TO ESTABLISH THE RATE AT 23 Q. 24 COST? 25

In the current environment, the incumbent LECs A. 1 have an overwhelming market advantage. The 2 incumbent LECs have essentially all of the 3 existing customers in the local exchange 4 telephone market. 5 6 If alternative providers are to have a 7 competitive chance, barriers to competition, if 8 not completely eliminated, must be minimized. 9 Barriers should not be enhanced by allowing the 10 incumbent LECs to exact additional mark-up 11 through the rates charged for providing call 12 termination. 13 14 15 ARE CURRENT TERMINATING SWITCHED ACCESS CHARGES 16 Q. THE APPROPRIATE RATES FOR INTERCONNECTION 17 COMPENSATION? 18 19 20 In fact, current terminating switched 21 Α. No. access charges are not even appropriate for 22 switched access. The rates are simply too 23 high. Recognizing that the cost of providing 24 switched access is less than 5 tenths of a cent 25

per access minute of use (more likely closer to 1 2 3 tenths of a cent), current terminating rates include a mark-up above cost in excess of 850% 3 - probably closer to 1500% or more. 4 5 By pricing interconnection services at these б 7 exorbitant levels, BellSouth could effectively foreclose local competition before it every has 8 a chance to develop. 9 10 11 ARE THERE NOT ADVANTAGES TO PRICING LOCAL 12 Q. INTERCONNECTION AT THE SAME RATES AS SWITCHED 13 ACCESS? 14 15 16 Α. Yes, there are advantages. Pricing these services at equal levels would greatly simplify 17 the measuring, reporting and billing processes. 18 Further, from an economic standpoint, 19 recognizing that the cost of providing these 20 respective services is essentially the same, it 21 would make sense to price them the same. 22 But the appropriate reconciliation is not to 23 begin pricing local interconnection 24 arrangements at the inflated prices of switched 25

access. Rather, local interconnection should 1 be priced at the appropriate TSLRIC rate and 2 switched access should be reduced to that 3 level. 4 5 6 7 Q. DOES THIS CONCLUDE YOUR TESTIMONY? 8 Yes. 9 A.

#### CERTIFICATE OF SERVICE

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