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November 27, 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. 950985X-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.

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

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C: cc:	J. P. Spooner, Jr. Parties of Record	
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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 21 day of November, 1995.

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Michael W. Tve

BEFORE THE

FLORIDA PUBLIC SERVICE COMMISSION

IN RE: RESOLUTION OF PETITION(S)

DOCKET NO. 950985B-TP

TO ESTABLISH

NONDISCRIMINATORY RATES, TERMS, AND CONDITIONS FOR INTERCONNECTION INVOLVING LOCAL EXCHANGE

INVOLVING LOCAL EXCHANGE COMPANIES AND ALTERNATE LOCAL EXCHANGE COMPANIES

PURSUANT TO SECTION

364.162, FLORIDA STATUTES

DIRECT TESTIMONY OF

MIKE GUEDEL

ON BEHALF OF AT&T COMMUNICATIONS

OF THE SOUTHERN STATES, INC.

NOVEMBER 27, 1995

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FPSC-RECORDS/REPORTING

4 Q. WILL YOU PLEASE IDENTIFY YOURSELF?

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A. My name is Mike Guedel and my business address
is AT&T, 1200 Peachtree Street, NE, Atlanta,
Georgia, 30309. I am employed by AT&T as
Manager-Network Services Division.

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9 Q. PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND AND
10 WORK EXPERIENCES.

I received a Master of Business Administration

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with a concentration in Finance from Kennesaw 13 14 State College, Marietta, GA in 1994. 15 received a Bachelor of Science degree in Business Administration from Miami University, 16 Oxford, Ohio. Over the past years, I have 17 attended numerous industry schools and seminars 18 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 South Central Bell with specific responsibility 5 for cost analysis, design, and development 6 relating to switched access services and 7 8 intraLATA toll. In June of 1985, I joined AT&T, assuming responsibility for cost analysis 9 of network services including access charge 10 impacts for the five South Central States 11 12 (Alabama, Kentucky, Louisiana, Mississippi, and Tennessee). 13

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16 Q. PLEASE DESCRIBE YOUR CURRENT RESPONSIBILITIES.

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18 Α. My current responsibilities include directing 19 analytical support activities necessary for intrastate communications service in Florida 20 and other southern states. This includes 21 detailed analysis of access charges and other 22 23 LEC filings to assess their impact on AT&T and 24 its customers. In this capacity, I have 25 represented AT&T through formal testimony

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

1	Q.	WHAT IS MEANT BY THE TERM INTERCONNECTION?
2		
3	A.	Interconnection refers to the act of linking
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
9		line-side or the trunk-side of a local exchange
10		company's switch. Typical interconnection
11		arrangements have included switched access,
12		cellular interconnection, Enhanced Service
13		Provider(ESP) interconnection, and the
14		interconnection of end user Customer Provided
15		Equipment (CPE) through local service
16		arrangements.
17		
18		In the implementation of local competition,
19		these traditional types of interconnection will
20		still be useful, but may not be sufficient to
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.

1	ν.	WOOLD TOO DESCRIBE WHAT YOU MEAN BY "UNBUNDLED
2		INTERCONNECTION ARRANGEMENTS?
3		
4	A.	Unbundling is the identification and
5		disaggregation of useful components of the
6		local exchange network into a set of elements,
7		or Basic Network Functions (BNFs) which can be
8		individually provided, costed, priced, and
9		interconnected in such a manner as to provide
10		other telecommunications service offerings.
11		For example, local exchange service can be
12		"unbundled" into loops, local switching, and
13		transport.
14		
15		AT&T has identified 11 components or BNFs
16		associated with local exchange services which
17		may be effectively and usefully unbundled.
18		These include: loop distribution, loop
19		concentration, loop feeder, switching, operator
20		systems, dedicated transport links, common
21		transport links, tandem switching, signaling
22		links, signal transfer points, and signal
23		control points.
24		

1 Further, it must be noted that the list of BNFs described above must not be considered static 2 or necessarily complete. Additional functional 3 elements may continue to be identified as 5 telecommunications technology evolves. 7 WOULD YOU DESCRIBE WHAT YOU MEAN BY 8 Q. INTERCONNECTION ARCHITECTURES? 9 10 The two basic architectures for implementing 11 A. interconnection are physical and virtual 12 collocation. 13 14 15 Physical collocation is an arrangement whereby an interconnector leases floor space (and 16 access to floor space) within a LEC central 17 18 office for purposes of installing, maintaining

office for purposes of installing, maintaining and managing telecommunications equipment used in the provision of the interconnector's service(s). Under this arrangement, the interconnector can gain entry to its designated space within the LEC central office (generally with security escort) to install, maintain, and/or repair its own equipment.

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1		Virtual collocation is an arrangement whereby
2		the local exchange company installs, maintains
3		and repairs the interconnector's designated
4		telecommunications equipment. Under this
5		arrangement, there is no segregated space
6		rented by the interconnector. Rather, there
7		would be equipment designated to the
8		interconnector in the central office, but the
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
12		physically access the equipment within the
13		central office.
14		
15		
16	Q.	ARE THERE OTHER TYPES OF INTERCONNECTION
17		ARRANGEMENTS?
18		
19	A.	Yes, there are other types of interconnection
20		where the actual point of interconnection is
21		not in a central office. These are generally

not in a central office. These are generally called "mid-span meets." In a mid-span meet arrangement, each carrier builds and is responsible for operating trunk facilities out to some agreed upon point between central

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

Third, it is important that no restrictions be 1 placed on interconnection standards and 2 3 offerings that would limit these requirements to just the existing inventory of LEC network functions. In order for interconnection to 5 encourage the growth of competition over time, 7 it must apply to all new LEC network services as they are developed. Q 10 Fourth, LECs must not be permitted to discriminate in any respect against new 11 entrants. Any discrimination in the 12 interconnection of new entrants to LEC network 13 14 components vis-à-vis interconnection of the LEC's own services - be it in the form of 15 delays in the offering of new arrangements, 16 17 inferior provisioning, installation or 18 maintenance of these arrangements, or uneconomic pricing of these arrangements, will 19 thwart new competition. 20 21 Furthermore, the compensation arrangements for 22 23 interconnection must also allow for the maximum feasible development of local exchange 24 25 competition. To do so, carrier compensation

_		arrangements should be hondractiminatory and
2		tariffed at rates that accurately reflect
3		underlying costs.
4		
5		
6	Q.	HAS MFS-FL RAISED THESE GENERIC ISSUES OF
7		UNBUNDLING AND INTERCONNECTION ARCHITECTURES IN
8		ITS PETITION?
9		
10	A.	Yes. MFS-FL is seeking specific
11		interconnection arrangements which fall within
12		these generic guidelines. Presumably, the
13		requested arrangements will compliment MFS's
14		existing or anticipated network and its
15		business plan. It must be noted, however, that
16		other arrangements may be required by other
17		ALECs that chose to organize their businesses
18		in a different manner.
19		
20		The purpose of this initial section of
21		testimony is to demonstrate the complexity of
22		the issues surrounding interconnection and the
23		need for incumbent LECs to make available an
24		extensive variety of interconnection

1 arrangements if the development of competition is to have any chance at all. 2 3 4 While it is imperative that BellSouth make 5 available to all potential entrants the same interconnection arrangements that it is 6 offering to MFS-FL, it must be recognized that 7 8 these arrangements may not be sufficient. other words, the MFS-FL arrangement must not be 9 considered the generic solution to 10 interconnection. 11 12 13 MFS-FL IS SEEKING SPECIFIC RELIEF FROM THE 14 Q. 15 PROPOSED CHARGES OF BELLSOUTH ASSOCIATED WITH 16 CALL TERMINATION. WOULD YOU DEFINE CALL TERMINATION IN THE CONTEXT OF ALEC/LEC LOCAL 17 18 INTERCONNECTION? 19 20 Yes. Call termination is the function of 21 receiving a call from an interconnecting 22 company at the terminating company's switch and 23 delivering the call to an end user customer (a 24 customer of the terminating company).

1		For example, assume that two companies are
2		offering competitive local telephone service in
3		a given geographic territory. One company is
4		the incumbent local exchange company (LEC) and
5		the other is an alternative local exchange
6		company (ALEC). Further assume that these
7		companies have established interconnecting
8		facilities linking their respective switches.
9		When a customer of the ALEC places a call to a
10		customer of the LEC, the call is transmitted
11		over the interconnecting facility to the LEC
12		switch. Likewise when a customer of the LEC
13		places a call to a customer of the ALEC, the
14		call can be transmitted over the same
15		interconnecting facility to the ALEC switch.
16		The function of call completion, in either
17		case, includes the reception of the call at the
18		terminating company switch and the delivery of
19		the call to the end user customer.
20		
21		
22	Q	WHY ARE THE CHARGES ASSOCIATED WITH THIS TYPE
23		OF CALL COMPLETION REFERRED TO AS "MUTUAL
24		COMPENSATION" ARRANGEMENTS?

If competition develops, each of the competing 1 A. 2 local service providers in a given territory 3 will serve a certain number of customers. order for each of these companies to offer ubiquitous local service to their respective 5 6 customers, each will have to rely on the other(s) to complete calls, and each will 7 8 expect some form of compensation for completing 9 other companies' calls. "Mutual Compensation" 10 refers to this interdependent need for call 11 completions.

12

13

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

16

17 A. Initially, the best solution may be the "bill

18 and keep" arrangement. Under this arrangement

19 no dollars change hands. The compensation that

20 one company offers to another for the

21 completion of its calls is the agreement to

22 complete the other companies' calls in a like

23 manner.

1		The beauty of this arrangement is its
2		simplicity. There is no need for terminating
3		companies to measure delivered traffic. There
4		is no bill preparation or bill rendering
5		involved, nor is there the need to review bills
6		for accuracy. Further, this arrangement can be
7		implemented without the development of cost
8		studies that would be required to establish and
9		justify specific prices.
10		
11		This arrangement could be implemented very
12		quickly, and because the initial volumes of
13		interconnected traffic will be very small, it
14		should not burden any of the interconnecting
15		companies.
16		
17		
18	Q.	IS "BILL AND KEEP" A VIABLE LONG RUN SOLUTION?
19		
20	A.	It may be. If traffic deliveries are
21		determined to be relatively balanced and the
22		costs are similar among LECs and ALECs, then a
23		bill and keep arrangement could work
24		indefinitely.

However, if effective competition for local 1 service does develop, and some of the 2 complications of measuring and billing and 3 costing are sorted out, then a more likely long term scenario would include actual billing at 5 prices based upon the total service long run incremental cost incurred in providing call 7 termination. 8 9 This latter method would more likely ensure 10 that each company is accurately compensated for 11 12 the particular services that it provides. 13 14 IF THE COMMISSION DETERMINES THAT A RATE FOR 15 CALL COMPLETION IS APPROPRIATE, AT WHAT LEVEL 16 SHOULD THE COMMISSION SET THE RATE? 17 18 The rates charged for call termination should 19 Α. 20 be set at the Total Service Long Run Incremental Cost (TSLRIC) that the LEC incurs 21 in providing the service. No additional mark-22 up should be allowed. A LEC should be 23 permitted to recover the costs that it incurs 24 in providing call termination arrangements, but 25

it should not be allowed to exact any 1 additional mark-up from potential competitors 2 3 simply for the right to do business in its territory. 5 6 WHY IS IT NECESSARY TO ESTABLISH THE RATE AT 7 Q. COST? 8 9 In the current environment, the incumbent LECs 10 Α. have an overwhelming market advantage. 11 incumbent LECs have essentially all of the 12 existing customers in the local exchange 13 14 telephone market. 15 If alternative providers are to have a 16 competitive chance, barriers to competition, if 17 not completely eliminated, must be minimized. 18 Barriers should not be enhanced by allowing the 19 incumbent LECs to exact additional mark-up 20 through the rates charged for providing call 21 termination. 22

23

1	Q.	ARE CURRENT TERMINATING SWITCHED ACCESS CHARGES
2		THE APPROPRIATE RATES FOR INTERCONNECTION
3		COMPENSATION?
4		
5		
6	A.	No. In fact, current terminating switched
7		access charges are not even appropriate for
8		switched access. The rates are simply too
9		high. Recognizing that the cost of providing
10		switched access is less than 5 tenths of a cent
11		per access minute of use (more likely closer to
12		3 tenths of a cent), current terminating rates
13		include a mark-up above cost in excess of 850%
14		- probably closer to 1500% or more.
15		
16		By pricing interconnection services at these
17		exorbitant levels, BellSouth could effectively
18		foreclose local competition before it every has
19		a chance to develop.
20		
21		
22	Q.	ARE THERE NOT ADVANTAGES TO PRICING LOCAL
23		INTERCONNECTION AT THE SAME RATES AS SWITCHED
24		ACCESS?

1	A.	Yes, there are advantages. Pricing these
2		services at equal levels would greatly simplify
3		the measuring, reporting and billing processes
4		Further, from an economic standpoint,
5		recognizing that the cost of providing these
6		respective services is essentially the same, is
7		would make sense to price them the same.
8		But the appropriate reconciliation is not to
9		begin pricing local interconnection
LO		arrangements at the inflated prices of switched
1		access. Rather, local interconnection should
12		be priced at the appropriate TSLRIC rate and
L3		switched access should be reduced to that
L 4		level.
۱5		
۱6		
١7	Q.	BELLSOUTH HAS APPARENTLY TAKEN THE POSITION
L 8		THAT IF IT PROVIDES THE TANDEM SWITCHING IN A
9		MEET-POINT SWITCHED ACCESS ARRANGEMENT (I.E., A
20		SITUATION WHERE MFS-FL SUBTENDS A BELLSOUTH
21		TANDEM) THAT IT (BELLSOUTH) SHOULD BILL AND
22		KEEP ITS RESIDUAL INTERCONNECTION CHARGE (RIC).
23		DO YOU SUPPORT THAT POSITION?
A		•

1	A.	No. The RIC has been purposefully dissociated
2		from the local transport function and
3		associated with end office switching in the
4		Local Transport Restructure (LTR) environment.
5		BellSouth has traditionally supported this
6		arrangement. In a situation where a company
7		(CAP, LEC, ETC.) provides local transport and
8		BellSouth provides the end office switching, it
9		would be BellSouth's position that it
10		(BellSouth) should be entitled to bill the RIC.
11		The same rules should apply to ALECs. In a
12		meet point arrangement where an ALEC provides
13		the end office switching, BellSouth should not
14		be entitled to RIC revenue.
15		
16		Of course the optimal solution would be to
17		eliminate the billing of the RIC altogether.
18		There is no underlying direct cost associated
19		with the RIC and even with its elimination,
20		BellSouth's switched access charges would still
21		be many hundred percent above cost.
22		
23		
24		
25		

1 Q. DOES THIS CONCLUDE YOUR TESTIMONY?

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3 A. Yes.