



Marceil Morrell\*\* Vice President & General Counsel - Florida

Associate General Counsel Anthony P. Gillman\*\* Leslie Reicin Stein\*

Attorneys\* Kimberly Caswell M. Eric Edgington Ernesto Mayor, Jr.

Licensed in Florida
 Certified in Florida as Authorized House Counse

**GTE Telephone Operations** 

One Tampa City Center Post Office Box 110, FLTC0007 Tampa, Florida 33601 813-224-4001 813-228-5257 (Facsimile)

DOCUMENT NO. DATE

10,81

October 7, 1996 - VIA FACSIMILE

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

Re: Docket Nos. 960847-TP and 960980-TP

Petitions by AT&T Communications of the Southern States, Inc., MCI Telecommunications Corporation and MCI Metro Access Transmission Services, Inc. for arbitration of certain terms and conditions of a proposed agreement with GTE Florida Incorporated concerning interconnection and resale under the Telecommunications Act of 1996

Dear Ms. Bayo:

Enclosed are an original and fifteen copies of the Rebuttal Testimony of Larry Hartshorn in Docket No. 960980-TP. This Testimony is intended to replace the original Rebuttal Testimony filed by Mr. Hartshorn in this proceeding on September 30, 1996. Please replace that version of Mr. Hartshorn's Rebuttal Testimony with the enclosed version.

Because of a clerical error, Mr. Hartshorn's Rebuttal Testimony in the AT&T portion of this docket was resubmitted (with only the docket number changed), rather than the MCI-specific Rebuttal Testimony that should have been submitted. GTEFL does not believe any party will be prejudiced by GTEFL's correction of this inadvertent

A part of GTE Corporation

Blanca S. Bayo October 7, 1996 Page 2

administrative error. The Rebuttal Testimony is not long (less than 10 pages), but it includes a few important points that will help to explain certain issues in this docket. GTEFL believes that the Commission will benefit from having this additional information.

If you have any questions, please contact me.

Very truly yours,

Anthony P. Gillman

APG:tas Enclosures Airborne

c: Donna Canzano, Esq. (w/e - via facsimile and overnight mail) Tracy Hatch, Esq. (w/e - via facsimile and overnight mail) Richard Melson, Esq. (w/e - via facsimile and overnight mail)

1		GTE FLORIDA INCORPORATED
2		REBUTTAL TESTIMONY OF LARRY HARTSHORN
3		DOCKET NO. 960980-TP
4		
5	Q.	PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.
6	A.	My name is Larry Hartshorn. My business address is One GTE
7		Place, Thousand Oaks, California 91362.
8		
9	Q.	BY WHOM ARE YOU EMPLOYED AND WHAT IS YOUR
10		POSITION?
11	Α.	I am employed by GTE California Incorporated (GTE) as Manager-
12		Network Design.
13		
14		
15	Q.	PLEASE BRIEFLY DESCRIBE YOUR EDUCATION AND WORK
16		EXPERIENCE.
17	Α.	I received my Bachelor of Science degree in electrical engineering
18		from the University of California at Davis. I have worked in the
19		telecommunications industry for over 27 years. I have been with GTE
20		for over 22 years, and have held positions in both manufacturing and
21		telephone operations. I started with GTE as an applications engineer
22		specializing in microwave radio and later served as Product Manager
23		for transmission and radio products. Between 1987 and 1993, I held
24		manager positions in both engineering and planning for GTE
25		Hawaiian Telephone Company. I joined GTE California in 1993 as
		10755 OCT-8%

FPSC-RECORDS/REPORTING

1		Network Engineering Manager and assumed my current position of
2		Network Design Manager in 1994.
3		
4	Q.	WHAT ARE YOUR RESPONSIBILITIES IN YOUR CURRENT
5		POSITION?
6	А.	I plan the network infrastructure growth and modernization, including
7		outside plant cable and electronics, central office equipment, and
8		interoffice facilities as well as developing infrastructure necessary to
9		deliver new products and services to customers.
10		
11	Q.	HAVE YOU PREVIOUSLY TESTIFIED BEFORE ANY STATE
12		COMMISSIONS?
13	Α.	Yes. I have testified in several matters in both Hawaii and California.
14		
15	Q.	DID YOU FILE DIRECT TESTIMONY IN THIS PROCEEDING?
16	А.	No. I did not. But I am hereby adopting the Direct Testimony of
17		GTEFL witness Albert E. Wood, Jr. This witness substitution is
18		necessary because the GTE Operating Companies are involved in so
19		many arbitration hearings around the country at the same time.
20		Given this situation, it is inevitable that conflicts will arise for the
21		limited number of witnesses available to testify on any given subject
22		matter.
23		
24	Q.	WHAT IS THE PURPOSE OF YOUR REBUTTAL TESTIMONY?
25	Α.	I will respond to certain unbundling and related demands by MCI.

## 1Q.DOES THE ACT REQUIRE GTEFL TO PROVIDE MCI ACCESS TO2GTEFL'S UNUSED TRANSMISSION MEDIA, AS MCI'S WITNESS3CAPLAN SUGGESTS?

4 Α. No. Unused transmission media--for the most part, dark fiber--is, by 5 definition, not a network element subject to unbundling. The Act 6 defines network element to include only those facilities that are "used 7 in the provision of a telecommunications service." (Act at sec. 3(45) 8 [emphasis added].) Dark fiber consists of fiber cable that is not 9 equipped with the electronics necessary to enable voice or data to pass through it. In effect, dark fiber bears the same relationship to 10 11 the network that a line of poles does before cable is attached to it. Because ILECs do not use dark fiber in their networks--transport 12 circuits must be "lit" to be used--dark fiber does not meet the statutory 13 definition. Therefore, GTEFL should not be compelled to provide it 14 to AT&T and MCI in this proceeding. In addition, GTEFL cannot 15 agree with MCI's requests for GTEFL to provide information on dark 16 fiber as requested by MCI. 17

18

## 19Q.ASIDE FROM THE FACT THAT ACCESS TO DARK FIBER IS NOT20REQUIRED BY THE ACT, ARE THERE POLICY REASONS TO21DENY SUCH ACCESS TO ALECS?

A. Yes. First, dark fiber is spare equipment. It is similar to fiber cable
that is stored on a reel in a GTEFL warehouse. It has been placed in
the ground because, from a network planning perspective, it makes
better economic sense for the fiber cable to be in the ground than it

does for it to still be on a cable reel in the warehouse.

2

1

Planning the network in a cost-efficient way is very important to
GTEFL, which expends a lot of effort and expense in this respect.
One of GTEFL's planning considerations is the cost of placing spare
cable now, as opposed to the cost of placing additional cable later.
It is often more cost-effective for GTEFL to place the cable sooner
rather than later. Cost considerations include right-of-way issues and
the labor associated with cable placement.

10

11 GTEFL plans its cable for its anticipated use. Allowing other parties 12 to take advantage of GTEFL's spare cable placement negates its 13 planning process. This would inevitably result in situations where 14 GTEFL would have to place additional cable at a later date, incurring 15 the associated costs that it would not otherwise bear. From a network 16 planning perspective, this is inefficient for GTEFL.

17

Furthermore, MCI's proposal could lead to situations in which GTEFL 18 would have to deny service to an end user because another party 19 had "used up" GTEFL's spare capacity. ALECs will not route traffic 20 or design their networks in the same way GTEFL does. They will 21 have a different set of customers than GTEFL currently has and will 22 build their networks to serve those specific customers. There will 23 undoubtedly be situations where an ALEC will route more traffic 24 through a segment of the network than GTEFL would have. If this 25

happens to be a portion of the network that the ALEC has provisioned
 by using its spare capacity, GTEFL could wind up with a capacity
 problem.

4

# 5Q.CAN YOU PROVIDE AN ANALOGY THAT WILL ILLUSTRATE6HOW ALLOWING ALECS ACCESS TO GTEFL'S DARK FIBER7WILL DISRUPT ITS NETWORK PLANNING PROCESS?

A. Yes. Pretend that I work in the city, but I live 40 miles out into the
country. I drive to work and back. There are no gas stations between
my home and town. Therefore, I have to plan my gas purchases
ahead. The system works well as long as I remember to plan ahead
as I leave town each night for home. If I do so, I will not run out of
gas before I get back into town the next day. The process is wellestablished and it works.

15

One day, a house is built just down the road from mine. Shortly thereafter, a family moves in. I go over to meet my new neighbor. It turns out that she works in the same city that I do and that she drives to work. However, she leaves for work 3 hours before I do, while I am still asleep, and returns home 3 hours before I do, while I am still at work.

22

23 She asks me that, to ensure that she never runs out of gas on her 24 way to work, could I let her, if she is running low, to stop by on her 25 way to work and siphon gas out of my tank and into hers. She notes

that she will, of course, reimburse me for the gas.

2

1

What is my response? If I say yes, I will have to restructure my planning process to make sure that I have enough gas to get to work if my neighbor happens to have used the siphon option some morning. In effect, to accommodate this unknown possibility--she tells me she cannot predict how often or when this will occur--I have to get gas more frequently than I used to and make sure I keep a larger reserve.

10

If we replace the gas in this analogy with dark fiber, it is not difficult
to understand how the ALECs' demands--uncertain as to timing and
quantity-will severely undermine GTEFL's ability to efficiently plan its
network.

15

### 16Q.COULD YOU COMMENT ON THE COSTS ASSOCIATED WITH17MCI'S REQUEST FOR ACCESS TO GTEFL'S DARK FIBER?

Yes. Such access could force GTEFL to incur very significant costs., Α. 18 both in terms of direct expense and the more indirect costs of the 19 inefficiencies introduced into GTEFL's operations. If other parties are 20 allowed access to dark fiber, GTEFL will need more spare capacity 21 in its network. Further, if there are a number of parties requesting 22 such access--as there certainly will be--and if they do not inform 23 GTEFL in advance as to where they will want dark fiber, GTEFL will 24 have to completely reexamine its network planning criteria in order to 25

continue to provide good service to its own customers.

2

1

### Q. IN THE EVENT THE COMMISSION ORDERS GTEFL TO PROVIDE ACCESS TO ITS DARK FIBER, HOW SHOULD IT BE PRICED?

5 Α. I am not an expert on pricing, but I do have some general 6 observations in this respect. The best approach would be to treat 7 dark fiber requests on a case-by-case basis and develop a price 8 which considers the relevant, location-specific costs. However, if the 9 Commission decides a tariff is appropriate-contrary to GTEFL's view-10 -then the Company will have to estimate where, how often and under 11 what specific circumstances dark fiber requests will occur. This 12 before-the-fact analysis will be much less accurate and potentially 13 more contentious.

- 14
- 15

# 16Q.IS IT TECHNICALLY FEASIBLE TO PROVIDE MCI AND OTHER17ALECS CUSTOMIZED ROUTING FOR OPERATOR ASSISTANCE18(OA), DIRECTORY ASSISTANCE (DA) AND REPAIR CALLS?

19A.No, it is not technically feasible. A good, cost-efficient, long-term20solution must be developed. Such a solution does not exist today.21The long-term solution may well involve the development of industry22standards that will help manufacturers to provide the necessary23hardware and software. These vendors will need to endorse any24such solution. At present, technical implementation concerns have

25

- prevented any vendor from supporting any solution, even for the short
   term.
- 3

. .

#### 4 Q. WHAT IS THE TIME FRAME FOR RESOLVING THE PROBLEMS 5 RELATIVE TO CUSTOMIZED ROUTING?

- A. It is not possible to accurately devise a timetable at this point. I would
  estimate, however, that the long-term solution might take two years
  to develop and begin to deploy. This process would involve
  identifying a solution, developing standards, and manufacturing and
  deploying hardware and software.
- 11
- 12

### 13Q.CAN YOU COMMENT ON THE COSTS ASSOCIATED WITH14CUSTOMIZED ROUTING?

- A. I cannot give cost figures at this point, because I believe the costs will
  be switch-specific, depending on the type of solution, the type and
  size of the switch and its capabilities. I am not a costing witness, but,
  in general, it is GTEFL's position that costs should be recovered from
  the cost causers for the required modifications--that is, the ALECs.
- 20

#### 21 Q. MR. CAPLAN STATES THAT MCI HAS REQUESTED ACCESS TO

## 22 UNBUNDLED LOOP DISTRIBUTION PLANT. WHAT IS GTEFL'S 23 POSITION REGARDING THIS REQUEST?

### A. GTEFL will allow MCI to interconnect at the feeder distribution interface (FDI) for purposes of accessing GTEFL distribution cable

1 subject to the following conditions: (1) MCI agrees to pay GTEFL to 2 expand or replace the FDI (if required) over and above the 3 established price of the basic loop to accommodate terminating new 4 MCI cable; (2) MCI agrees to pay GTEFL to perform all cross-5 connects within the GTEFL FDI in addition to the established price of 6 the basic loop; (3) MCI agrees that since GTEFL personnel will 7 perform all cross-connects, MCI personnel will not require access to 8 the FDI; (4) MCI accepts GTEFL's interface specifications and 9 maintenance and administration policies in the event the parties do not reach other agreement on these issues; and (5) cost recovery 10 issues associated with the distribution element are resolved. 11 12 These conditions are reasonable because they reflect GTEFL's valid 13 security concerns and the concept that MCI should pay the costs 14 15 associated with its requests. 16 MCI HAS REQUESTED ACCESS TO GTEFL'S DIGITAL CROSS-17 Q. WHAT IS GTEFL'S POSITION IN CONNECT SYSTEMS. 18 **RESPONSE?** 19 The FCC has stated that access to Digital Cross-Connect Systems Α. 20 should be provided to competitive local exchange carriers on the 21 same basis that ILECs currently provide such access to 22 interexchange carriers. GTEFL will provide such access on that 23

24

basis.

25

1	Q.	IN HIS DIRECT TESTIMONY, MCI WITNESS CAPLAN STATES
2		THAT "BECAUSE OF THEIR FUNCTIONAL SIMILARITY TO DCS,
3		WE INTERPRET THE FCC'S DIRECTIVE TO INCLUDE
4		MULTIPLEXORS SUCH AS M13S AND CHANNEL BANKS." DO
5		YOU AGREE WITH THIS INTERPRETATION?
6	Α.	No. The function of a DCS is to electronically cross connect digital
7		signals. The function of an M13 is to transition between two levels of

- 8 the digital hierarchy. The function of the channel bank is to convert 9 analog signals to digital signals. Thus, these three devices have 10 substantially different purposes. MCI's attempt to expand the FCC's 11 ruling on Digital Cross Connect systems to include M13s or channel 12 banks has no sound basis and should be rejected.
- 13

In addition, even if MCI's creative interpretation of the FCC's intention were accepted, the FCC has nevertheless stated that the ILEC would provide such access to ALECs only to the extent that it was provided to interexchange carriers (IXCs). M13s and channel banks are not provided to IXCs today except as part of tariffed services. Similar access would, of course, be provided to MCI upon its request.

20

#### 21 Q. DOES THAT CONCLUDE YOUR REBUTTAL TESTIMONY?

- 22 A. Yes, it does.
- 23

24

25