

BEFORE THE  
FLORIDA PUBLIC SERVICE COMMISSION

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 :  
 In the Matter of :  
 Resolution of petition(s) : DOCKET NO. 950985-TP  
 to establish nondiscrimi- :  
 natory rates, terms, and :  
 conditions for intercon- :  
 nection involving local :  
 exchange companies and :  
 alternative local exchange :  
 companies pursuant to :  
 Section 364.162, F.S. :  
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SECOND DAY - EARLY AFTERNOON SESSION

VOLUME 7

Pages 727 through 875

PROCEEDINGS: HEARING

BEFORE: CHAIRMAN SUSAN F. CLARK  
 COMMISSIONER J. TERRY DEASON  
 COMMISSIONER JULIA L. JOHNSON  
 COMMISSIONER DIANE K. KIESLING  
 COMMISSIONER JOE GARCIA

DATE: Tuesday, March 12, 1996

TIME: Commenced at 8:30 a.m.

PLACE: Betty Easley Conference Center  
 Room 148  
 4075 Esplanade Way  
 Tallahassee, Florida

REPORTED BY: SYDNEY C. SILVA, CSR, RPR  
 Official Commission Reporter  
 (904) 413-6732

APPEARANCES:

(As heretofore noted.)

DOCUMENT NUMBER-DATE

FLORIDA PUBLIC SERVICE COMMISSION

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FPSC-RECORDS/REPORTING

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**EXHIBITS - VOLUME 7****NUMBER****ID. ADMTD.**

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21 (Price) DGP-1

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## P R O C E E D I N G S

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(Hearing reconvened at 12:40 p.m.)

(Transcript follows in sequence from  
Volume 6.)

CHAIRMAN CLARK: Call the hearing back to  
order. Mr. Rindler?

MR. RINDLER: Yes, Madam Chairman. In the  
spirit of the afternoon, I have no redirect.

CHAIRMAN CLARK: Thank you very much.  
Exhibits?

MR. RINDLER: I would move the entry of  
exhibits I believe it's Nos. 16 and 17?

CHAIRMAN CLARK: I believe yours are 16, 17,  
18 and 19.

MR. RINDLER: Thank you.

CHAIRMAN CLARK: And Staff moves Exhibit 20?

MR. EDMONDS: Yes, we do.

CHAIRMAN CLARK: Without objection, Exhibits  
16 through 20 will be admitted in the record.

Thank you, Mr. Devine.

(Exhibit Nos. 16 through 20 received in  
evidence.)

(Witness Devine excused.)

- - - - -

CHAIRMAN CLARK: Mr. Guedel?

**MIKE GUEDEL**

1  
2 was called as a witness on behalf of AT&T of the  
3 Southern States, Inc. and, having been duly sworn,  
4 testified as follows:

**DIRECT EXAMINATION**

5  
6 BY MS. DUNSON:

7 Q Mr. Guedel, would you please state your name  
8 and business address for the record, please.

9 A Yes. My name is Mike Guedel. My business  
10 address 1200 Peachtree Street Northeast, Atlanta,  
11 Georgia 30309.

12 Q By whom are you employed and in what  
13 capacity?

14 A I am employed by AT&T as a Manager in the  
15 Network Services Division.

16 Q Did you cause to be prepared for this  
17 proceeding 18 pages of direct testimony which was  
18 prefiled on January 5, 1996?

19 A Yes, I did.

20 Q Did you also cause to be prepared direct  
21 testimony of four pages which was prefiled on  
22 February 6th, 1996?

23 A Yes, I did.

24 Q And did you also cause to be prepared 20  
25 pages of direct testimony filed on February 6, 1996?

1           A     Yes, I did.

2           Q     Do you have any changes or corrections to  
3 your testimony?

4           A     No, I do not.

5           Q     If I asked you the same questions today as  
6 are contained in your written testimony, would your  
7 answers be the same?

8           A     Yes, they would.

9           Q     Did you prepare a summary of your testimony?

10          A     I did.

11          Q     Would you please give it for the record?

12                CHAIRMAN CLARK:  Ms. Dunson, let me make  
13 sure I have the right testimony and let's go ahead and  
14 enter it into the record.

15                MS. DUNSON:  Okay.

16                CHAIRMAN CLARK:  I have to say while you  
17 were asking him questions I was scrambling to find my  
18 testimony.  Tell me again the testimony you want us to  
19 enter in the record.

20                MS. DUNSON:  He has three sets of testimony.

21                CHAIRMAN CLARK:  Okay.

22                MS. DUNSON:  The first one dated  
23 January 5 --

24                CHAIRMAN CLARK:  All direct testimony?

25                MS. DUNSON:  All direct.

1                   CHAIRMAN CLARK: I think I have it then.

2                   The prefiled direct testimony of Mike Guedel  
3 dated January 5, 1995, regarding Time Warner/United,  
4 will be entered in the record as though read. The  
5 prefiled direct testimony of Mike Guedel dated  
6 February 6 relating to MFS/United portion will be  
7 inserted into the record as though read. And finally  
8 the direct testimony of Mr. Mike Guedel also dated  
9 February 6, 1995, referring to MFS/GTE portion will be  
10 inserted into the record as though read.

11                   Thank you.

12

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1 Q. WILL YOU PLEASE IDENTIFY YOURSELF?

2

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

7

8

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

11

12 A. I received a Master of Business Administration  
13 with a concentration in Finance from Kennesaw  
14 State College, Marietta, GA in 1994. I  
15 received a Bachelor of Science degree in  
16 Business Administration from Miami University,  
17 Oxford, Ohio. Over the past years, I have  
18 attended numerous industry schools and seminars  
19 covering a variety of technical and regulatory  
20 issues. I joined the Rates and Economics  
21 Department of South Central Bell in February of  
22 1980. My initial assignments included cost  
23 analysis of terminal equipment and special  
24 assembly offerings. In 1982, I began working  
25 on access charge design and development. From

1           May of 1983 through September of 1983, as part  
2           of an AT&T task force, I developed local  
3           transport rates for the initial NECA interstate  
4           filing. Post divestiture, I remained with  
5           South Central Bell with specific responsibility  
6           for cost analysis, design, and development  
7           relating to switched access services and  
8           intraLATA toll. In June of 1985, I joined  
9           AT&T, assuming responsibility for cost analysis  
10          of network services including access charge  
11          impacts for the five South Central States  
12          (Alabama, Kentucky, Louisiana, Mississippi, and  
13          Tennessee).

14

15

16   **Q.   PLEASE DESCRIBE YOUR CURRENT RESPONSIBILITIES.**

17

18   **A.**   My current responsibilities include directing  
19          analytical support activities necessary for  
20          intrastate communications service in Florida  
21          and other southern states. This includes  
22          detailed analysis of access charges and other  
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 testimony of  
20 Time Warner AxS of Florida, L.P. and Digital  
21 Media Partners (collectively "Time Warner/DMP")  
22 and I will recommend a compensation arrangement  
23 that is consistent with the generic principles  
24 discussed above.

25

1

2 Q. WHAT IS MEANT BY THE TERM INTERCONNECTION?

3

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

18

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

1 interconnection architectures will need to be  
2 made available.

3

4

5 Q. WOULD YOU DESCRIBE WHAT YOU MEAN BY "UNBUNDLED"  
6 INTERCONNECTION ARRANGEMENTS?

7

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

18

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

1 links, signal transfer points, and signal  
2 control points.

3

4 Further, it must be noted that the list of BNFs  
5 described above must not be considered static  
6 or necessarily complete. Additional functional  
7 elements may continue to be identified as  
8 telecommunications technology evolves.

9

10

11 **Q. WOULD YOU DESCRIBE WHAT YOU MEAN BY**  
12 **INTERCONNECTION ARCHITECTURES?**

13

14 **A.** The two basic architectures for implementing  
15 interconnection are physical and virtual  
16 collocation.

17

18 Physical collocation is an arrangement whereby  
19 an interconnector leases floor space (and  
20 access to floor space) within a LEC central  
21 office for purposes of installing, maintaining  
22 and managing telecommunications equipment used  
23 in the provision of the interconnector's  
24 service(s). Under this arrangement, the  
25 interconnector can gain entry to its designated

1 space within the LEC central office (generally  
2 with security escort) to install, maintain,  
3 and/or repair its own equipment.

4 Virtual collocation is an arrangement whereby  
5 the local exchange company installs, maintains,  
6 and repairs the interconnector's designated  
7 telecommunications equipment. Under this  
8 arrangement, there is no segregated space  
9 rented by the interconnector. Rather, there  
10 would be equipment designated to the  
11 interconnector in the central office, but the  
12 actual location would be determined by the LEC.  
13 The interconnector could maintain monitoring  
14 and control ability, but would not be able to  
15 physically access the equipment within the  
16 central office.

17

18

19 **Q. ARE THERE OTHER TYPES OF INTERCONNECTION**  
20 **ARRANGEMENTS?**

21

22 **A.** Yes, there are other types of interconnection  
23 where the actual point of interconnection is  
24 not in a central office. These are generally  
25 called "mid-span meets." In a mid-span meet

1 arrangement, each carrier builds and is  
2 responsible for operating trunk facilities out  
3 to some agreed upon point between central  
4 offices. Another way of thinking about this  
5 arrangement is that each carrier provides one  
6 half of the circuit. Under such an arrangement  
7 the carriers are jointly responsible for the  
8 traffic traversing the circuit.

9  
10 In addition, there may be other interconnection  
11 arrangements that LECs have used or that may be  
12 useful to potential interconnectors.

13

14

15 **Q. WHAT ARE THE NECESSARY CHARACTERISTICS OF**  
16 **INTERCONNECTION NEEDED TO OFFER AN EFFECTIVE**  
17 **AND EFFICIENT WAY OF PROMOTING LOCAL EXCHANGE**  
18 **COMPETITION?**

19

20 **A.** First, interconnection must be available at all  
21 technically and logically possible unbundled  
22 interfaces to the LEC network.

23

1           Second, interconnection must be made available  
2           to new carriers under the same rates, terms and  
3           conditions as apply to the LECs own service.

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

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

25

1 Furthermore, the compensation arrangements for  
2 interconnection must also allow for the maximum  
3 feasible development of local exchange  
4 competition. To do so, carrier compensation  
5 arrangements should be nondiscriminatory and  
6 tariffed at rates that accurately reflect  
7 underlying costs.

8

9

10 **Q. HAS TIME WARNER/DMP RAISED THESE GENERIC ISSUES**  
11 **OF UNBUNDLING AND INTERCONNECTION ARCHITECTURES**  
12 **IN ITS PETITION?**

13

14 **A.** Yes. Time Warner/DMP is seeking specific  
15 interconnection arrangements which fall within  
16 these generic guidelines. Presumably, the  
17 requested arrangements will compliment Time  
18 Warner/DMP's existing or anticipated network  
19 and its business plan. It must be noted,  
20 however, that other arrangements may be  
21 required by other ALECs that choose to organize  
22 their businesses in a different manner.

23

24 The purpose of this initial section of  
25 testimony is to demonstrate the complexity of

1 the issues surrounding interconnection and the  
2 need for incumbent LECs to make available an  
3 extensive variety of interconnection  
4 arrangements if the development of competition  
5 is to have any chance at all.

6  
7 While it is imperative that Sprint/United make  
8 available to all potential entrants the same  
9 interconnection arrangements that it is  
10 offering to Time Warner/DMP, it must be  
11 recognized that these arrangements may not be  
12 sufficient. In other words, the Time  
13 Warner/DMP arrangement must not be considered  
14 the generic solution to interconnection.

15

16

17 **Q. TIME WARNER/DMP IS SEEKING SPECIFIC RELIEF FROM**  
18 **THE PROPOSED CHARGES OF SPRINT/UNITED**  
19 **ASSOCIATED WITH CALL TERMINATION. WOULD YOU**  
20 **DEFINE CALL TERMINATION IN THE CONTEXT OF**  
21 **ALEC/LEC LOCAL INTERCONNECTION?**

22

23 **A.** Yes. Call termination is the function of  
24 receiving a call from an interconnecting  
25 company at the terminating company's switch and

1 delivering the call to an end user customer (a  
2 customer of the terminating company).

3  
4 For example, assume that two companies are  
5 offering competitive local telephone service in  
6 a given geographic territory. One company is  
7 the incumbent local exchange company (LEC) and  
8 the other is an alternative local exchange  
9 company (ALEC). Further assume that these  
10 companies have established interconnecting  
11 facilities linking their respective switches.  
12 When a customer of the ALEC places a call to a  
13 customer of the LEC, the call is transmitted  
14 over the interconnecting facility to the LEC  
15 switch. Likewise when a customer of the LEC  
16 places a call to a customer of the ALEC, the  
17 call can be transmitted over the same  
18 interconnecting facility to the ALEC switch.  
19 The function of call completion, in either  
20 case, includes the reception of the call at the  
21 terminating company switch and the delivery of  
22 the call to the end user customer.

23

24

1 Q WHY ARE THE CHARGES ASSOCIATED WITH THIS TYPE  
2 OF CALL COMPLETION REFERRED TO AS "MUTUAL  
3 COMPENSATION" ARRANGEMENTS?  
4

5 A. If competition develops, each of the competing  
6 local service providers in a given territory  
7 will serve a certain number of customers. In  
8 order for each of these companies to offer  
9 ubiquitous local service to their respective  
10 customers, each will have to rely on the  
11 other(s) to complete calls, and each will  
12 expect some form of compensation for completing  
13 other companies' calls. "Mutual Compensation"  
14 refers to this interdependent need for call  
15 completions.  
16  
17

18 Q. WHAT ARE THE APPROPRIATE TERMS AND PRICES FOR  
19 MUTUAL COMPENSATION ARRANGEMENTS?  
20

21 A. Initially, the best solution may be the "bill  
22 and keep" arrangement. Under this arrangement  
23 no dollars change hands. The compensation that  
24 one company offers to another for the  
25 completion of its calls is the agreement to

1 complete the other companies' calls in a like  
2 manner.

3  
4 The beauty of this arrangement is its  
5 simplicity. There is no bill preparation or  
6 bill rendering involved, nor is there the need  
7 to review bills for accuracy. Further, this  
8 arrangement can be implemented without the  
9 development of cost studies that would be  
10 required to establish and justify specific  
11 prices.

12  
13 This arrangement could be implemented very  
14 quickly, and because the initial volumes of  
15 interconnected traffic will be very small, it  
16 should not burden any of the interconnecting  
17 companies.

18

19

20 **Q. IS "BILL AND KEEP" A VIABLE LONG RUN SOLUTION?**

21

22 **A.** It may be. If traffic deliveries are  
23 determined to be relatively balanced and the  
24 costs are similar among LECs and ALECs, then a

1 bill and keep arrangement could work  
2 indefinitely.

3  
4 However, if effective competition for local  
5 service does develop, and some of the  
6 complications of billing and costing are sorted  
7 out, then a more likely long term scenario  
8 would include actual billing at prices based  
9 upon the total service long run incremental  
10 cost incurred in providing call termination.

11  
12 This latter method would more likely ensure  
13 that each company is accurately compensated for  
14 the particular services that it provides.

15

16

17 **Q. IF THE COMMISSION DETERMINES THAT A RATE FOR**  
18 **CALL COMPLETION IS APPROPRIATE, AT WHAT LEVEL**  
19 **SHOULD THE COMMISSION SET THE RATE?**

20

21 **A.** The rates charged for call termination should  
22 be set at the Total Service Long Run  
23 Incremental Cost (TSLRIC) that the LEC incurs  
24 in providing the service. No additional mark-  
25 up should be allowed. A LEC should be

1 permitted to recover the costs that it incurs  
2 in providing call termination arrangements, but  
3 it should not be allowed to exact any  
4 additional mark-up from potential competitors  
5 simply for the right to do business in its  
6 territory.

7

8

9 **Q. WHY IS IT NECESSARY TO ESTABLISH THE RATE AT**  
10 **COST?**

11

12 **A.** In the current environment, the incumbent LECs  
13 have an overwhelming market advantage. The  
14 incumbent LECs have essentially all of the  
15 existing customers in the local exchange  
16 telephone market.

17

18 If alternative providers are to have a  
19 competitive chance, barriers to competition, if  
20 not completely eliminated, must be minimized.  
21 Barriers should not be enhanced by allowing the  
22 incumbent LECs to exact additional mark-up  
23 through the rates charged for providing call  
24 termination.

1 Q. ARE CURRENT SWITCHED ACCESS CHARGES THE  
2 APPROPRIATE RATES FOR INTERCONNECTION  
3 COMPENSATION?  
4

5 A. No. In fact, current switched access charges  
6 are not even appropriate for switched access.  
7 The rates are simply too high. Sprint/United  
8 currently charges about 12 and one half cents  
9 for two ends of access. Sprint/United has  
10 previously testified before this Commission  
11 that its cost of providing switched access is  
12 in the range of 1 cent. Thus, current switched  
13 access rates include a mark-up above cost in  
14 the range of 1100%.

15

16 By pricing interconnection services at these  
17 exorbitant levels, Sprint/United could  
18 effectively foreclose local competition before  
19 it even has 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 reporting and billing processes. Further,  
4 from an economic standpoint, recognizing that  
5 the cost of providing these respective services  
6 is essentially the same, it would make sense to  
7 price them the same.

8  
9 But the appropriate reconciliation is not to  
10 begin pricing local interconnection  
11 arrangements at the inflated prices of switched  
12 access. Rather, local interconnection should  
13 be priced at the appropriate TSLRIC rate and  
14 switched access should be reduced to that  
15 level.

16

17

18 Q. DOES THIS CONCLUDE YOUR TESTIMONY?

19

20 A. Yes.

1 Q. WILL YOU PLEASE IDENTIFY YOURSELF?

2

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

7

8

9 Q. HAVE YOU PREVIOUSLY FILED TESTIMONY IN THIS  
10 DOCKET?

11

12 A. Yes. I filed testimony in this docket on  
13 January 5, 1996.

14

15

16 Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

17

18 A. The purpose of my testimony is to ensure that  
19 the positions of AT&T are fully represented in  
20 this portion of the docket regardless of how  
21 its procedural course unfolds.

22

23

24

25

1 Q. WHAT ARE YOUR POSITIONS ON THE ISSUES THAT HAVE  
2 BEEN RAISED BY METROPOLITAN FIBER SYSTEMS OF  
3 FLORIDA (MFS) IN ITS PETITION AND TESTIMONY?  
4

5 A. Essentially MFS has offered testimony  
6 addressing many of the issues previously  
7 identified through the testimony of another  
8 petitioner (i.e., Time Warner) in an earlier  
9 portion of this docket. AT&T's positions on  
10 these issues, particularly with respect to  
11 "Bill and Keep" and mutual compensation  
12 arrangements, are the same as expressed in  
13 previously filed AT&T testimony. Therefore, in  
14 the interests of avoiding repetition, and of  
15 potentially saving some trees, I would like to  
16 adopt the testimony that I had filed on January  
17 5, 1996 in an earlier portion of this docket.  
18  
19

20 Q. ARE THERE ANY ADDITIONAL ISSUES DIRECTLY RAISED  
21 THROUGH THE PETITION AND/OR TESTIMONY OF MFS  
22 THAT AT&T DID NOT HAVE THE OPPORTUNITY TO  
23 ADDRESS IN THE EARLIER PORTION OF THIS DOCKET?  
24  
25

1 A. Yes. MFS Specifically discusses the  
2 appropriate billing of the residual  
3 interconnection charge (RIC) in an access  
4 situation where an incumbent LEC provides  
5 tandem switching and MFS (or other ALEC)  
6 provides the end office switching. This issue  
7 was not specifically raised in the earlier  
8 portion of this docket.

9

10

11 **Q. SPRINT/UNITED HAS APPARENTLY TAKEN THE POSITION**  
12 **THAT IF IT PROVIDES THE TANDEM SWITCHING IN A**  
13 **MEET-POINT SWITCHED ACCESS ARRANGEMENT (I.E., A**  
14 **SITUATION WHERE MFS SUBTENDS A SPRINT/UNITED**  
15 **TANDEM) THAT IT (SPRINT/UNITED) SHOULD BILL AND**  
16 **KEEP ITS RESIDUAL INTERCONNECTION CHARGE (RIC).**  
17 **DO YOU SUPPORT THAT POSITION?**

18

19

20 A. No. The RIC has been purposefully dissociated  
21 from the local transport function and  
22 associated with end office switching in the  
23 Local Transport Restructure (LTR) environment.  
24 Sprint/United has traditionally supported this  
25 arrangement. In a situation where a company

1 (CAP, LEC, etc.) provides local transport and  
2 Sprint/United provides the end office  
3 switching, it would likely be Sprint/United's  
4 position that it (Sprint/United) should be  
5 entitled to bill the RIC. The same rules  
6 should apply to ALECs. In a meet point  
7 arrangement where an ALEC provides the end  
8 office switching, Sprint/United should not be  
9 entitled to RIC revenue.

10

11 Of course the optimal solution would be to  
12 eliminate the billing of the RIC altogether.  
13 There is no underlying direct cost associated  
14 with the RIC and even with its elimination,  
15 Sprint/United's switched access charges would  
16 still be many hundred percent above cost.

17

18 **Q. DOES THIS CONCLUDE YOUR TESTIMONY?**

19

20 **A. Yes.**

1 Q. WILL YOU PLEASE IDENTIFY YOURSELF?

2

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

7

8

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

11

12 A. I received a Master of Business Administration  
13 with a concentration in Finance from Kennesaw  
14 State College, Marietta, GA in 1994. I  
15 received a Bachelor of Science degree in  
16 Business Administration from Miami University,  
17 Oxford, Ohio. Over the past years, I have  
18 attended numerous industry schools and seminars  
19 covering a variety of technical and regulatory  
20 issues. I joined the Rates and Economics  
21 Department of South Central Bell in February of  
22 1980. My initial assignments included cost  
23 analysis of terminal equipment and special  
24 assembly offerings. In 1982, I began working  
25 on access charge design and development. From

1 May of 1983 through September of 1983, as part  
2 of an AT&T task force, I developed local  
3 transport rates for the initial NECA interstate  
4 filing. Post divestiture, I remained with  
5 South Central Bell with specific responsibility  
6 for cost analysis, design, and development  
7 relating to switched access services and  
8 intraLATA toll. In June of 1985, I joined  
9 AT&T, assuming responsibility for cost analysis  
10 of network services including access charge  
11 impacts for the five South Central States  
12 (Alabama, Kentucky, Louisiana, Mississippi, and  
13 Tennessee).

14

15

16 **Q. PLEASE DESCRIBE YOUR CURRENT RESPONSIBILITIES.**

17

18 A. My current responsibilities include directing  
19 analytical support activities necessary for  
20 intrastate communications service in Florida  
21 and other southern states. This includes  
22 detailed analysis of access charges and other  
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

25

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 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  
25 made available.

1 Q. WOULD YOU 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  
25

1 Further, it must be noted that the list of BNFs  
2 described above must not be considered static  
3 or necessarily complete. Additional functional  
4 elements may continue to be identified as  
5 telecommunications technology evolves.

6

7

8 **Q. WOULD YOU DESCRIBE WHAT YOU MEAN BY**  
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  
16 an interconnector leases floor space (and  
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,  
25 and/or repair its own equipment.

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  
22 called "mid-span meets." In a mid-span meet  
23 arrangement, each carrier builds and is  
24 responsible for operating trunk facilities out  
25 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  
22 to new carriers under the same rates, terms and  
23 conditions as apply to the LECs' own service.

24

25

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

9  
10 Fourth, LECs must not be permitted to  
11 discriminate in any respect against new  
12 entrants. Any discrimination in the  
13 interconnection of new entrants to LEC network  
14 components vis-à-vis interconnection of the  
15 LEC's own services - be it in the form of  
16 delays in the offering of new arrangements,  
17 inferior provisioning, installation or  
18 maintenance of these arrangements, or  
19 uneconomic pricing of these arrangements, will  
20 thwart new competition.

21  
22 Furthermore, the compensation arrangements for  
23 interconnection must also allow for the maximum  
24 feasible development of local exchange  
25 competition. To do so, carrier compensation

1 arrangements should be nondiscriminatory 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  
2 is to have any chance at all.

3  
4 While it is imperative that GTE make available  
5 to all potential entrants the same  
6 interconnection arrangements that it is  
7 offering to MFS-FL, it must be recognized that  
8 these arrangements may not be sufficient. In  
9 other words, the MFS-FL arrangement must not be  
10 considered the generic solution to  
11 interconnection.

12

13

14 **Q. MFS-FL IS SEEKING SPECIFIC RELIEF FROM THE**  
15 **PROPOSED CHARGES OF GTE ASSOCIATED WITH CALL**  
16 **TERMINATION. WOULD YOU DEFINE CALL TERMINATION**  
17 **IN THE CONTEXT OF ALEC/LEC LOCAL**  
18 **INTERCONNECTION?**

19

20 **A.** 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).

25

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?**

25

1 A. If competition develops, each of the competing  
2 local service providers in a given territory  
3 will serve a certain number of customers. In  
4 order for each of these companies to offer  
5 ubiquitous local service to their respective  
6 customers, each will have to rely on the  
7 other(s) to complete calls, and each will  
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

14 **Q. WHAT ARE THE APPROPRIATE TERMS AND PRICES FOR**  
15 **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.

24

25

1           The beauty of this arrangement is its  
2           simplicity. There is no bill preparation or  
3           bill rendering involved, nor is there the need  
4           to review bills for accuracy. Further, this  
5           arrangement can be implemented without the  
6           development of cost studies that would be  
7           required to establish and justify specific  
8           prices.

9  
10          This arrangement could be implemented very  
11          quickly, and because the initial volumes of  
12          interconnected traffic will be very small, it  
13          should not burden any of the interconnecting  
14          companies.

15

16

17   **Q.    IS "BILL AND KEEP" A VIABLE LONG RUN SOLUTION?**

18

19   **A.**    It may be.  If traffic deliveries are  
20          determined to be relatively balanced and the  
21          costs are similar among LECs and ALECs, then a  
22          bill and keep arrangement could work  
23          indefinitely.

24

1           However, if effective competition for local  
2           service does develop, and some of the  
3           complications of billing and costing are sorted  
4           out, then a more likely long term scenario  
5           would include actual billing at prices based  
6           upon the total service long run incremental  
7           cost incurred in providing call termination.

8  
9           This latter method would more likely ensure  
10          that each company is accurately compensated for  
11          the particular services that it provides.

12

13

14   **Q.    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   **A.**   The rates charged for call termination should  
19          be set at the Total Service Long Run  
20          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 simply for the right to do business in its  
3 territory.

4

5

6 **Q. WHY IS IT NECESSARY TO ESTABLISH THE RATE AT**  
7 **COST?**

8

9 **A.** In the current environment, the incumbent LECs  
10 have an overwhelming market advantage. The  
11 incumbent LECs have essentially all of the  
12 existing customers in the local exchange  
13 telephone market.

14

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. Assuming that GTE's cost of providing  
10 switched access is similar to that of BellSouth  
11 and United (i.e., stated to be around 5 tenths  
12 of a cent per access minute of use), GTE's  
13 current terminating rates (approximately 6.8  
14 cents) include a mark-up above cost in excess  
15 of 1200%.

16  
17 By pricing interconnection services at these  
18 exorbitant levels, GTE could effectively  
19 foreclose local competition before it ever has  
20 a chance to develop.

21  
22  
23 Q. ARE THERE NOT ADVANTAGES TO PRICING LOCAL  
24 INTERCONNECTION AT THE SAME RATES AS SWITCHED  
25 ACCESS?

1 A. Yes, there are advantages. Pricing these  
2 services at equal levels would greatly simplify  
3 the reporting and billing processes. Further,  
4 from an economic standpoint, recognizing that  
5 the cost of providing these respective services  
6 is essentially the same, it would make sense to  
7 price them the same.  
8 But the appropriate reconciliation is not to  
9 begin pricing local interconnection  
10 arrangements at the inflated prices of switched  
11 access. Rather, local interconnection should  
12 be priced at the appropriate TSLRIC rate and  
13 switched access should be reduced to that  
14 level.

15

16

17 Q. GTE HAS APPARENTLY TAKEN THE POSITION THAT IF  
18 IT PROVIDES THE TANDEM SWITCHING IN A MEET-  
19 POINT SWITCHED ACCESS ARRANGEMENT (I.E., A  
20 SITUATION WHERE MFS-FL SUBTENDS A GTE TANDEM)  
21 THAT IT (GTE) SHOULD BILL AND KEEP ITS RESIDUAL  
22 INTERCONNECTION CHARGE (RIC). DO YOU SUPPORT  
23 THAT POSITION?

24

25

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 GTE has traditionally supported this  
6 arrangement. In a situation where a company  
7 (CAP, LEC, etc.) provides local transport and  
8 GTE provides the end office switching, it would  
9 be GTE's position that it (GTE) should be  
10 entitled to bill the RIC. The same rules  
11 should apply to ALECs. In a meet point  
12 arrangement where an ALEC provides the end  
13 office switching, GTE should not be entitled to  
14 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 GTE's switched access charges would still be  
21 many hundred percent above cost.

22

23

24

25

1 Q. DOES THIS CONCLUDE YOUR TESTIMONY?

2

3 A. Yes.

1 Q (By Ms. Dunson) Would you please summarize  
2 your testimony.

3 A Yes. The purpose of this phase of Docket  
4 950985 is to determine the appropriate interconnection  
5 arrangements between the petitioners and GTE of  
6 Florida and United Telephone of Florida.

7 The testimony that AT&T is presenting in  
8 this phase of the docket is essentially the same  
9 testimony that we presented in an earlier phase of the  
10 docket that dealt with BellSouth. Our positions here  
11 likewise the same.

12 Basically, for interconnection arrangements  
13 to be useful they must, one, be made available at all  
14 technically and logically feasible points. Two, be  
15 made available to new carriers under the same rates,  
16 terms, and conditions as apply to the LEC's own  
17 services. Three, the interconnection arrangements  
18 must not be limited to existing services. Four, the  
19 incumbent LECs must not be permitted to discriminate  
20 in any way against the new entrants. Five, the  
21 compensation arrangements must allow for the maximum  
22 feasible development of local competition.

23 With respect to mutual compensation, AT&T  
24 recommends that the Commission initially adopt a bill  
25 and keep standard. Under this arrangement, no dollars

1 change hands. The compensation that one company  
2 offers to another for the completion of calls is the  
3 agreement to complete the other company's calls in a  
4 like manner.

5 As competition develops and cost information  
6 become more available the pricing of this service  
7 could evolve into a TSLRIC standard.

8 Finally, there has been discussion of the  
9 residual interconnection charge and the applicability  
10 of the residual interconnection charge in a meet  
11 point billing arrangement where the incumbent LEC  
12 provides tandem switching and an ALEC provides the end  
13 office switching.

14 AT&T believes that this meet point billing  
15 arrangement should be handled exactly the same way as  
16 it is currently handled between incumbent LECs of the  
17 same arrangement. In other words, the company that  
18 bills the end office switching is the company that  
19 should be entitled to bill the RIC.

20 Thank you.

21 MS. DUNSON: The witness is available for  
22 cross examination.

23 CHAIRMAN CLARK: Thank you. Ms. Wilson?

24 MS. WILSON: I have no cross.

25 CHAIRMAN CLARK: Mr. Crosby?

1 MR. CROSBY: No questions, thank you.

2 CHAIRMAN CLARK: Mr. Melson?

3 MR. MELSON: No questions.

4 MR. HORTON: No questions,

5 MR. RINDLER: No questions.

6 CHAIRMAN CLARK: Mr. Gillman.

7 MR. GILLMAN: Yes. Thank you, Madam

8 Chairman.

9 **CROSS EXAMINATION**

10 BY MR. GILLMAN:

11 Q Could you turn to Page 14 of your testimony,  
12 Mr. Guedel. Of the direct?

13 A The January 5 version or --

14 Q January 5 version, yes.

15 A Yes.

16 CHAIRMAN CLARK: Mr. Gillman, what page was  
17 that?

18 MR. GILLMAN: Page 14.

19 Q (By Mr. Gillman) And Line 20, the question  
20 was asked, "Is bill and keep a viable long run  
21 solution?" And your answer was, "It may be." Is it  
22 true then -- then you talk it may be viable if it is  
23 relatively balanced.

24 So are you stating then that a bill and keep  
25 arrangement would not be a viable situation when

1 traffic is out of balance?

2 A I believe there were two points. Number  
3 one, if the traffic was determined to be relatively  
4 balanced and the costs were determined to be similar,  
5 that it may be viable in the long run. If those  
6 factors turn out not to be the case, then it may not  
7 be viable, again, in the long run.

8 Q In the short run, do you expect the traffic  
9 to be balanced?

10 A Yes, I do. I expect it to be reasonably in  
11 balance.

12 Q So in the next year you expect it to be  
13 reasonably in balance?

14 A Yes. My view is that it is probably going  
15 to remain in balance for quite some time or probably  
16 forever.

17 Q What studies have you looked at that support  
18 that statement?

19 A I have no studies that support that  
20 statement.

21 MR. GILLMAN: I have nothing further, thank  
22 you.

23 CHAIRMAN CLARK: Mr. Fons.

24 MR. FONS: I have a few questions.  
25

## CROSS EXAMINATION

1

2 BY MR. FONS:

3 Q Good afternoon, Mr. Guedel.

4 A Good afternoon.

5 Q How are you?

6 A Fine, thank you.

7 Q Good. Were you present yesterday when your  
8 attorney, Mr. Tye, testified that AT&T is in this  
9 proceeding strictly as an IXC to protect AT&T's IXC  
10 interests?

11 MS. DUNSON: I don't think Mr. Tye testified  
12 yesterday.

13 CHAIRMAN CLARK: We'll let the record  
14 reflect that Mr. Fons has been guilty of testifying  
15 himself on occasion. (Laughter)

16 MR. FONS: It takes one to call one.

17 CHAIRMAN CLARK: That's right.

18 A Yes, I was present.

19 Q (By Mr. Fons) And do you agree with what he  
20 stated?

21 A Yes. At the time the testimony was filed,  
22 we were certificated as an interexchange carrier in  
23 this state, we were not certificated as an ALEC.

24 Q The positions you have taken in your  
25 testimony are basically positions that would also

1 benefit an ALEC?

2 A I think they are positions that would tend  
3 to stimulate competition in the local exchange market.  
4 I think that's also consistent with the development of  
5 the interexchange market and probably good for the  
6 interexchange markets.

7 Q That wasn't my question. My question was,  
8 aren't the positions you are taking in your testimony  
9 beneficial to an ALEC?

10 A No, not in the sense that they are  
11 prejudiced towards the ALEC. I think my positions are  
12 fair; they're not in favor of an ALEC or in favor of a  
13 LEC, I wouldn't believe.

14 Q But wouldn't you agree that if the  
15 Commission were to adopt your position as stated in  
16 your testimony they would be positions that would be  
17 consistent with the positions that are being advocated  
18 by the ALECs in this proceeding?

19 A In a general sense, that's true.

20 Q At the time you filed your testimony, had  
21 AT&T made any decision as to whether or not there was  
22 going to be an ALEC?

23 A Not to my knowledge.

24 Q Do you remember when you filed your  
25 testimony what date it was?

1           A     Well, we filed one copy of the testimony on  
2 January 5th; we filed two subsequent testimonies on  
3 February 6th.

4           Q     And you filed direct testimony on  
5 February 6, 1995?

6           A     Yes.

7           Q     Didn't you?

8           A     Yes, we did.

9           Q     Do you know whether Congress had acted on  
10 the bill by February 6th?

11          A     No, sir, I don't.

12          Q     Would you accept subject to check that the  
13 vote was on February 1, 1996?

14          A     The vote may have been, I'm not sure when.

15          Q     So the bill passed on February 1st, 1996,  
16 and you submitted testimony on February 6th, 1996?

17          A     I believe, again, subject to check, Congress  
18 may have passed the bill on February 1st. I don't  
19 believe it had a Presidential signature at that time  
20 but I agree with your dates.

21          Q     Was there any doubt about the signature?

22          A     Sure.

23          Q     There was at that time?

24          A     Sure.

25          Q     Okay. Your memory is different from mine,

1 Mr. Guedel. But on February 9, the President signed  
2 the bill; would you accept that subject to check?

3 A I'll accept that.

4 Q And immediately following his signature of  
5 signing that bill, didn't AT&T announce its entry into  
6 the local exchange business?

7 CHAIRMAN CLARK: What was the date he signed  
8 it?

9 MR. FONS: February 9.

10 A Sir, I'm not exactly sure of the dates. I  
11 agree with you that it was shortly after the President  
12 signed the bill that AT&T expressed a stronger  
13 interest in becoming involved in local exchange  
14 markets.

15 Q Would you accept the statement, "Just hours  
16 after the signing, AT&T Corporation Chairman Robert  
17 Allen described plans to expand into the local  
18 exchange telephone market as early as this summer"?

19 A Again I can't speak to the hours. I don't  
20 disagree with the substance of the statement.

21 Q And if your testimony was filed on  
22 February 6th and the President signed the bill on  
23 February 9th and the Chairman of AT&T made his  
24 statement on February 9th, do you think February 9th  
25 was the first time that AT&T thought about entering

1 the local exchange market?

2 A No, I don't think so. I'm sure it has been  
3 thought about before.

4 Q Is AT&T entering the local exchange market  
5 on any other name other than AT&T?

6 A I don't know.

7 Q It is your position in this testimony that  
8 the Commission ought to adopt bill and keep; isn't  
9 that correct?

10 A Yes.

11 Q And you believe that bill and keep is  
12 possibly good for the long term but it might not be;  
13 is that correct?

14 A I think that's a correct statement, yes.

15 Q Why wouldn't it be appropriate for the long  
16 term?

17 A Again, as I point out in my testimony,  
18 there's a couple factors. One, you have to look at  
19 the relative balance of traffic over the longer term;  
20 and secondly, you may want to look at the relevant  
21 costs.

22 If the costs are basically similar over the  
23 long term and the demand is basically similar or the  
24 balance, if you will, is basically similar, then again  
25 bill and keep may be an effective solution. On the

1 other hand, once you get information on costs and are  
2 a little more proficient with that, then you may want  
3 to move to a TSLRIC standard.

4 Q Has AT&T to your knowledge entered into any  
5 agreements with any LECs in any state for the exchange  
6 of local exchange traffic?

7 A Not to my knowledge.

8 MR. FONS: I have no further questions.

9 CHAIRMAN CLARK: Staff?

10 **CROSS EXAMINATION**

11 BY MS. CANZANO:

12 Q Good afternoon. We just have a few  
13 questions. Are you familiar with Mr. Devine's  
14 testimony?

15 A Yes, to an extent.

16 Q He proposed that the RIC, the residual  
17 interconnection charge, rate element be charged and  
18 that it be collected by the ALEC performing the  
19 terminating access similar to the way that it is  
20 currently being handled between the LECs for  
21 terminating access associated with the intraLATA LEC  
22 toll. Are you familiar with that?

23 A Yes.

24 Q You have stated it may be appropriate to  
25 eliminate the billing of the RIC altogether since

1 there is no underlying costs associated with it and  
2 that the LEC access charge rate levels would still be  
3 substantially above cost without it; is that correct?

4 A Yes. I believe I said optimally that would  
5 be the answer.

6 Q Do you believe that it would be appropriate  
7 for no one to collect the RIC for the intermediate  
8 traffic in this proceeding?

9 A The change in the RIC charge or the  
10 elimination of a RIC charge is probably beyond the  
11 scope of this proceeding.

12 I believe optimally when you have a cost  
13 element -- excuse me -- a rate element that has zero  
14 underlying cost here your goal is to get rid of that  
15 charge in the long term.

16 My concern with what my understanding was of  
17 some of the LEC positions was they were -- the  
18 incumbent LEC was taking the position, or at least it  
19 was argued they were taking the position that the RIC  
20 should be billed in conjunction with the tandem. What  
21 that could set up is a case where two RICs were  
22 billed, once at the tandem and then once at the end  
23 office. I think that would certainly be inappropriate  
24 under any circumstance. I don't want to pay it twice.

25 So you have to fall back on, "Okay, who gets

1 it? Who bills it?" The customary billing of the  
2 residual interconnection charge and the general meet  
3 point billing arrangements that the LECs have in place  
4 today is he who provides end office switching is  
5 entitled to bill the RIC.

6 Now, if the companies don't want -- I'm not  
7 encouraging ALECs to bill the RIC. Let me put that up  
8 front, too. If they don't want to bill it, that's  
9 fine. I'm simply saying if the incumbent provides  
10 tandem switching and an ALEC provides end office  
11 switching, the incumbent doesn't even have the right  
12 to even think about billing the RIC.

13 Q Your position is that for intermediary  
14 handling of local traffic the LEC should receive the  
15 TSLRIC of the tandem switching function; is that  
16 correct?

17 A Yes.

18 Q If a LEC has not been able to develop an  
19 actual TSLRIC for that rate element, what in your  
20 opinion would be a reasonable substitute?

21 A Well, I'm not sure. The tandem switching is  
22 somewhat unique. There is a cost of providing tandem  
23 switching. I would assume that the local exchange  
24 companies, particularly GTE and United, have at least  
25 a long-run incremental cost of providing that service.

1 If they have no cost of providing that service then  
2 they are going to have to develop one.

3 Q So would the long-run incremental cost be an  
4 appropriate substitute then if they don't already have  
5 a TSLRIC developed, or would it be better to wait  
6 until they develop the TSLRIC?

7 A Ultimately the TSLRIC is probably the better  
8 floor because it guarantees that there won't be any  
9 cross-subsidization. But if you have a LRIC cost and  
10 you want to use that, that would be okay.

11 Q Do you think there should be a different  
12 rate for intermediary handling of interLATA versus  
13 intraLATA toll traffic?

14 A For the intermediate function?

15 Q Intermediary handling.

16 A I think when you talk about toll traffic the  
17 intermediary function becomes the tandem transport  
18 function. So I think tandem transport access charges  
19 should apply. If you provide toll services and you  
20 interconnect you should pay access. If you provide  
21 local services and you interconnect there should be  
22 some kind of local compensation. And unfortunately  
23 they are going to have to be different for a little  
24 while because the access charges are just too high.

25 Q Does that mean at some point in the future

1 you could imagine that they would be the same?

2 A Yes. I think at some point in the future  
3 they could be the same because I believe the  
4 functionality is the same, I believe the cost  
5 functions are essentially the same. The problem is  
6 the price with the current switched access. We need  
7 to price both switched access and local  
8 interconnection at the total service long-run  
9 incremental cost.

10 Q Isn't it true that switched access is above  
11 total service long-run incremental cost?

12 A Yes, it is significantly above. In fact, in  
13 my testimony with respect to United, I pointed out  
14 that it is at least 1100% above total service or  
15 long-run incremental cost.

16 MS. CANZANO: Thank you. Staff has no  
17 further questions.

18 CHAIRMAN CLARK: Commissioners? Ms. Dunson?

19 MS. DUNSON: I don't have any redirect.

20 CHAIRMAN CLARK: Thank you. Thank you very  
21 much, Mr. Guedel.

22 WITNESS GUEDEL: Thank you.

23 (Witness Guedel excused.)

24 - - - - -

25 CHAIRMAN CLARK: Mr. Price.

1 MR. MELSON: MCI Metro calls Mr. Price.

2 DON PRICE

3 was called as a witness on behalf of MCI Metro Access  
4 Transmission Services, Inc. and, having been duly  
5 sworn, testified as follows:

6 DIRECT EXAMINATION

7 BY MR. MELSON:

8 Q Please state your name and business address.

9 A Yes. My name is Don Price. My business  
10 address is 701 Brazos, B-R-A-Z-O-S, Suite 600, Austin,  
11 Texas 78701.

12 Q By whom are you employed and in what  
13 capacity?

14 A MCI Telecommunications Corporation is my  
15 employer and my title is Regional Manager, Local  
16 Competition Policies, Southern Region State Regulatory  
17 and Governmental Affairs.

18 Q Have you prefiled direct testimony in this  
19 docket consisting of eight pages?

20 A Yes, I have.

21 Q Do you have any changes or corrections to  
22 that testimony?

23 A There is -- yes. At Page 3, Line 7, it is  
24 simply an update. The number 13 at Line 7 should be  
25 changed to 15 to reflect the number of additional

1 states in which MCI Metro has received regulatory  
2 authority to operate as a local service provider since  
3 this was prefiled. That's the only change.

4 Q With that update if I were to ask you the  
5 same questions today would your answers be the same?

6 A Yes, they would.

7 MR. MELSON: Chairman Clark, I would ask  
8 that Mr. Price's direct testimony be inserted into the  
9 record as though read.

10 CHAIRMAN CLARK: The prefiled direct  
11 testimony of Mr. Don Price submitted February 6, 1996,  
12 will be inserted into the record as though read.

13 Q (By Mr. Melson) And, Mr. Price, did you  
14 have one exhibit to your testimony labeled DGP-1 and  
15 consisting of your professional qualifications?

16 A Yes, I did.

17 MR. MELSON: Madam Chairman, I would ask  
18 that exhibit be marked as I believe it's No. 21?

19 CHAIRMAN CLARK: It is, Mr. Melson, and it  
20 will be marked as Exhibit 21.

21 (Exhibit No. 21 marked for identification.)  
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DOCKET NO. 950985-TP  
(MFS INTERCONNECTION PETITIONS RE SPRINT/GTEFL)  
DIRECT TESTIMONY OF DON PRICE  
ON BEHALF OF  
MCI METRO ACCESS TRANSMISSION SERVICES, INC.  
February 6, 1996

Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.

A. My name is Don Price, and my business address is 701 Brazos, Suite 600, Austin, Texas, 78701.

Q. BY WHOM AND IN WHAT CAPACITY ARE YOU EMPLOYED?

A. I am employed by MCI Telecommunications Corporation as Regional Manager, Local Competition Policy, Southern Region State Regulatory and Governmental Affairs.

Q. WHAT ARE YOUR PROFESSIONAL QUALIFICATIONS AND EXPERIENCE?

A. I have provided as Exhibit 21 (DGP-1) to this testimony a listing of my professional qualifications and experience.

Q. HAVE YOU PREVIOUSLY PRESENTED TESTIMONY BEFORE THIS COMMISSION?

A. Yes. Also, I have testified in a number of regulatory proceedings in various states in the BellSouth and Southwestern Bell regions.

1 Included in Exhibit 21 (DGP-1) is a list of proceedings in which I  
2 have presented testimony.

3

4 Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS  
5 PROCEEDING?

6 A. My testimony will describe MCImetro's position on a few of the  
7 key technical, financial and operational arrangements that are  
8 necessary for the provision of ALEC service by MCImetro. These  
9 items have been discussed in the preliminary negotiations between  
10 MCImetro and Sprint-United, Sprint-Centel, and GTE Florida  
11 Incorporated. Those negotiations are still on-going, and have not  
12 reached an impasse, so MCImetro has not been required to file its  
13 own interconnection petition with the Commission. Nevertheless,  
14 the Commission's decision on the petitions filed in this docket by  
15 MFS and others may well set a precedent, and MCImetro has an  
16 interest in seeing that any decision addresses the technical and  
17 operational items that are of particular concern to it.

18

19 Q. WHO IS MCIMETRO ACCESS TRANSMISSION SERVICES, INC.?

20 A. MCImetro Access Transmission Services, Inc. ("MCImetro") is a  
21 wholly owned indirect subsidiary of MCI Telecommunications  
22 Corporation, the certificated long distance provider. The creation  
23 of MCImetro was announced by MCI on January 4, 1994. That  
24 announcement stated that MCImetro was expected to invest \$2  
25 billion in fiber rings and local switching infrastructure in major U.S.

1 metropolitan markets, and was the MCI subsidiary that will operate  
2 as a local telecommunications service provider.

3 The 1994 annual report to shareholders of MCI  
4 Communications Corporation stated that the planned capital  
5 expenditures for MCImetro for 1995 were \$500 million. Since its  
6 formation, MCImetro has obtained regulatory approval to provide  
7 competitive local exchange services in ~~13~~<sup>15</sup> states, and has pending  
8 applications for such authority in another 5 states.

9 On June 30, 1995, pursuant to s.364.337(6)(b), Florida  
10 Statutes, MCImetro provided notice to this Commission of its  
11 intent to provide alternative local exchange telecommunications  
12 services. On October 11, 1995, this Commission issued its Order  
13 No. PSC-95-1256-FOF-TX acknowledging MCImetro's intent to  
14 provide alternative local exchange services effective January 1,  
15 1996.

16

17 Q. WHAT ARE THE APPROPRIATE ARRANGEMENTS FOR PAYMENT  
18 OF ACCESS CHARGES ON INTEREXCHANGE CALLS  
19 TERMINATED TO A NUMBER THAT HAS BEEN "PORTED" TO AN  
20 ALEC?

21 A. The ALEC should receive access charges on interexchange calls  
22 terminated to a number that has been "ported" to the ALEC. As  
23 I noted in my testimony in the recent docket on temporary number  
24 portability mechanisms, "the use of RCF as a temporary number  
25 portability mechanism introduces administrative problems in

1 ensuring that the ALEC receives the appropriate terminating access  
2 charges for toll calls placed to a "ported" customer."

3 As I described in that testimony, an interexchange call  
4 placed to a "ported" customer of an ALEC will first go to Sprint or  
5 GTEFL, who would "terminate" the call to the central office that  
6 previously served the customer. Then, using the RCF temporary  
7 number portability mechanism, the incumbent LEC would "re-  
8 originate" the call to the telephone number assigned to the  
9 customer by the ALEC. This example demonstrates that the ALEC,  
10 and *not* Sprint or GTEFL, would be performing the function of  
11 terminating the call to the called party. The incumbent LEC's  
12 billing systems would, however, have concluded that the call was  
13 "terminated" by Sprint or GTEFL at the point where it was  
14 forwarded to the ALEC's network using RCF, and the incumbent  
15 LEC would seek to assess terminating switched access charges on  
16 the carrier who had delivered the call to its network.

17 The only reason Sprint or GTEFL is in the call path for the  
18 call -- and thus has the potential to assess terminating access  
19 charges -- is because of the RCF mechanism which it chose to  
20 recommend for providing temporary number portability. A true  
21 database solution for number portability would have routed the call  
22 directly to the ALEC, recognizing that the call was to be terminated  
23 to the ALEC rather than to a customer of the incumbent LEC.  
24 Under a true number portability solution the ALEC would be able  
25 to appropriately bill the carrier without the type of administrative

1 complexities raised by the use of RCF as a temporary number  
2 portability mechanism.

3 The Commission should also recognize that its order in the  
4 temporary number portability proceeding established rates that  
5 were above Sprint's and GTEFL's economic costs of providing  
6 RCF. Because these companies cannot claim that they have  
7 unrecovered costs associated with the provision of RCF, they have  
8 no basis to claim a right to any terminating access revenues to a  
9 number that has been "ported" to ALEC. If either Sprint or GTEFL  
10 collects any access revenues for such calls, it should be required  
11 to remit all such revenues to ALEC.

12

13 Q. WHAT ARE THE APPROPRIATE ORDER PROCESSING  
14 ARRANGEMENTS BETWEEN ALECs AND SPRINT/GTEFL?

15 A. Intercompany procedures must be developed to support the  
16 ordering of unbundled loops, interoffice facilities (including point of  
17 interconnection ["POI"] arrangements and trunks), interim number  
18 portability mechanisms (such as Remote Call Forwarding), and  
19 customer listing databases which support the white pages  
20 directory and directory assistance databases. These procedures  
21 must support ordering in a "network of networks" environment.

22 The "back office systems" used by a company are almost  
23 always automated. There are obvious reasons for such automation  
24 such as operating efficiency, the need for automated interfaces  
25 with billing systems, and the need to track the various work

1 processes at each step in turning up (or taking down) service. It  
2 is easy to imagine the administrative nightmare that would result  
3 if thousands of transactions each day were handled on a paper  
4 basis. There would be no way to determine whether any progress  
5 had been made in fulfilling a request for service, or if so, at what  
6 stage of fulfillment that order was. And billing system errors  
7 would be rampant because of the need to manually enter each and  
8 every transaction separately from the taking of the order.  
9 Therefore, Sprint and GTEFL should be required to develop as soon  
10 as possible, but in any event within one year, mechanized systems  
11 for the ordering of unbundled loops, interoffice facilities, interim  
12 number portability mechanisms, customer listing databases, and  
13 any other service or function necessary for the interoperability of  
14 their networks with those of the ALECs. Such mechanized  
15 interfaces are used in the day-to-day interactions between LECs  
16 and IXCs. Anything short of automated or mechanized  
17 intercompany procedures would be unworkable.

18

19 Q. WHAT ARE THE APPROPRIATE ARRANGEMENTS FOR THE  
20 ENTRY OF ALEC CUSTOMER INFORMATION INTO SPRINT'S AND  
21 GTEFL'S 911 DATABASES?

22 A. Sprint and GTEFL should be required to cooperate with ALECs to  
23 ensure that ALECs' customer data is in the proper format for  
24 inclusion in the 911 Automatic Location Identification (ALI)  
25 database. Customer data -- and specifically the street addresses -

1           - are edited against a database referred to as the master street  
2 address guide ("MSAG") to ensure that the uniform listing of street  
3 addresses. This is so that emergency personnel will have a  
4 consistent reference for every address to which they may be called  
5 to render service. Thus, the public safety and welfare requires that  
6 Sprint and GTEFL either make the MSAG available to the ALECs,  
7 or cooperate in the editing of ALECs' customer data against the  
8 MSAG for inclusion in the ALI database(s). For the same reasons  
9 noted above with respect to ordering systems, Sprint and GTEFL  
10 should be required to permit ALEC access to the same mechanized  
11 systems they use to edit customer data against the MSAG. That  
12 access should be via a mechanized interface, and should be  
13 provided as soon as possible. A reasonable time frame for Sprint  
14 and GTEFL to be able to furnish ALI data entry capability would be  
15 the date of the final order in this proceeding for paper copy. Then,  
16 within 30 days from that date, Sprint and GTEFL should furnish  
17 ALECs with automated entry capability.

18

19       Q.   WHAT ARE THE APPROPRIATE ARRANGEMENTS FOR THE  
20 SUPPORT OF REPAIR SERVICE?

21       A.   Intercompany procedures must be developed to support repair  
22 services in a "network of networks" environment. As noted above,  
23 the "back office systems" used by a company are almost always  
24 automated, for obvious reasons of operating efficiency and the  
25 need to track progress in isolating and clearing customer trouble.

1           It would be an administrative nightmare if repair services were to  
2           be handled on a paper basis. Neither company would be able to  
3           determine whether any progress had been made in isolating or  
4           clearing an incidence of trouble, or even whether someone had  
5           been dispatched to work on a particular incidence. Anything short  
6           of automated or mechanized intercompany procedures would be  
7           virtually unworkable. Therefore Sprint and GTEFL should be  
8           required to develop mechanized systems for processes such as  
9           referral of trouble tickets, and to implement those systems as soon  
10          as possible.

11                 Sprint and GTEFL must also develop procedures that will  
12          permit ALECs to isolate trouble both on trunking facilities to the  
13          POI and on unbundled network facilities -- such as loop facilities --  
14          leased from Sprint and GTEFL. Otherwise, efforts to clear  
15          incidences of customer trouble will be constrained by the lack of  
16          appropriate intercompany procedures for testing of various  
17          network elements. The absence of such procedures could create  
18          an undeserved impression that the ALEC is not capable of  
19          providing high quality service. Customers should be won or lost  
20          on the basis of fair competition, and not as a result of the  
21          incumbent's failure to implement appropriate procedures for  
22          handling of repair issues.

23

24          Q.     DOES THIS CONCLUDE YOUR TESTIMONY?

25          A.     Yes, it does.

1 Q (By Mr. Melson) Mr. Price, would you please  
2 summarize your testimony.

3 A Yes. Good afternoon, Commissioners. My  
4 testimony in this proceeding touches on several issues  
5 of a somewhat operational or administrative nature but  
6 issues that are important, nonetheless.

7 With respect to access charges on  
8 interexchange calls to a customer who has forwarded  
9 the old telephone number using remote call forwarding,  
10 I'm urging the Commission to determine that GTE and  
11 Sprint have no claim on those interexchange access  
12 revenues. Such a conclusion is consistent with the  
13 decision of other commissions as well as with this  
14 Commission's recent decision in the MFS and MCI Metro  
15 complaints against BellSouth.

16 In addition, my testimony notes the  
17 importance of intercompany arrangements and mechanized  
18 interfaces for order entry, service provisioning,  
19 repair services, and the update of customer listings  
20 for directory assistance, published directories and  
21 listing information in support of 911 service.

22 Seamless intercompany arrangements and  
23 interfaces to the back office systems of the incumbent  
24 telephone companies for these functions are crucial to  
25 the provision of high quality services to end users,

1 and the absence of such arrangements can have  
2 significant negative competitive implications.

3 As I state in my testimony, customers should  
4 be won or lost on the basis of fair competition, not  
5 as a result of incomplete or inefficient intercompany  
6 arrangements. Therefore, in conclusion, my testimony  
7 is such arrangements and interfaces should be made  
8 available to ALECs as soon as possible.

9 This concludes my summary, thank you.

10 MR. MELSON: Mr. Price is tendered for  
11 cross.

12 CHAIRMAN CLARK: Ms. Wilson.

13 MR. CROSBY: Ms. Wilson asked me to tell you  
14 she had no questions, Madam Chairman.

15 CHAIRMAN CLARK: Mr. Crosby.

16 MR. CROSBY: No questions.

17 CHAIRMAN CLARK: Mr. Logan.

18 MR. LOGAN: Yes.

19 **CROSS EXAMINATION**

20 BY MR. LOGAN:

21 Q Mr. Price, I have one quick question. I  
22 believe you indicated in your summary that LECs should  
23 provide mechanized access to these various LEC systems  
24 and databases. Is that correct?

25 A Yes.

1           Q     Who should pay the cost that the LEC incurs  
2 in providing those mechanized interfaces?

3           A     I think it's important to note first of all  
4 that the systems themselves are mechanized. The order  
5 entry systems that the telephone companies utilize are  
6 directly linked electronically into things like  
7 service provisioning systems, billing systems, so that  
8 they have a seamless, if you will, set of connections  
9 between all the various systems that are necessary to  
10 set up a service order, prepare the billing system,  
11 actually provision the service, et cetera.

12                     So we're not talking about changes to these  
13 systems; all we're talking about is the addition of an  
14 interface so the ALECs can have visibility to, for  
15 example, the service ordering process.

16                     If MCI Metro were to initiate a new service  
17 order on behalf of one of its customers that required,  
18 for example, the use of remote call forwarding by GTE  
19 or by Sprint, we would certainly want to be able to  
20 watch that service order as it flows through the  
21 system so that we would know, for example, what work  
22 was planned at a particular day.

23                     If we had promised the customer that we were  
24 going to turn up the service within 48 hours, then we  
25 would want the visibility to those order entry and

1 provisioning systems to make sure that that 48 hours  
2 was something that wouldn't be jeopardized by the loss  
3 of the service order.

4           Now the reason that I go into all that  
5 detail is because we're not talking about the systems  
6 themselves, all we're talking about is simply a  
7 mechanized access to the system so that we can see  
8 that, so we'll have visibility to the systems.

9           The payment of any changes that would need  
10 to be made to provide that mechanized interface should  
11 be absorbed by GTE or by Sprint. There's several  
12 reasons for that. First of all, if you grant them the  
13 authority or the ability to recover whatever costs,  
14 I'm afraid they would have significant incentives to  
15 overstate that cost and to claim that perhaps maybe  
16 changes that they wanted to make to their systems as  
17 opposed to the interface was somehow the cost that we  
18 should pay. They would have that kind of incentive to  
19 shift costs to their competitors, it seems to me.

20           Secondly, they will need access to our  
21 systems in the same way. So we will also have to have  
22 mechanized interfaces that they will have visibility  
23 into our ordering systems because the day will come  
24 the when a customer of an ALEC, we don't relish this  
25 thought, but it's a reality that we have to be

1 prepared for the day when an ALEC customer will want  
2 to change to GTE or Sprint; and at that time they will  
3 want that same visibility into our systems as well.

4 MR. LOGAN: No further questions.

5 CHAIRMAN CLARK: Mr. Horton?

6 MR. HORTON: No questions.

7 CHAIRMAN CLARK: Mr. Rindler?

8 MR. RINDLER: No questions.

9 CHAIRMAN CLARK: Ms. Weiske.

10 MS. WEISKE: No questions.

11 CHAIRMAN CLARK: Mr. Edgington.

12 MR. EDGINGTON: GTE has no questions.

13 CHAIRMAN CLARK: Thank you. Mr. Fons?

14 **CROSS EXAMINATION**

15 BY MR. FONNS:

16 Q I have a couple questions. Mr. Price, I'm a  
17 bit mystified. You were asked a question by Mr. Logan  
18 on behalf of AT&T about the development of some  
19 mechanized systems for ordering, et cetera. Could you  
20 turn to Page 6 of your testimony, please? Your  
21 testimony dated February 6, 1996.

22 I believe you answered Mr. Logan by saying  
23 that these systems are already in existence, and yet  
24 your testimony says "Therefore, Sprint and GTE Florida  
25 should be required to develop as soon as possible and

1 in any event within one year mechanized systems for  
2 the ordering of unbundled loops, et cetera."

3 Are you changing your testimony now?

4 A No, I'm not.

5 Q So these systems aren't in existence today?

6 A Well, to some extent they are. And I do  
7 need to clarify that to try to eliminate any confusion  
8 that I might have inadvertently created.

9 There are systems that today are used  
10 internally to each of the telcos as end-user customers  
11 place orders for retail services. To some extent,  
12 those systems may need to be modified in order to take  
13 into account the ordering of services that today are  
14 not provided on a retail basis but will be in the  
15 future provided to other providers of service, other  
16 ALECs.

17 And that's why I cited here unbundled loops.  
18 There will need to be slight modifications to the  
19 existing ordering systems, and all I'm saying is that  
20 that also needs to be done.

21 I heard the question that I was asked  
22 earlier to be with respect to the interfaces and that  
23 was really what I was touching on.

24 Q Your testimony doesn't say that we should be  
25 required to modify existing systems, it says, "should

1 be required to develop" these systems. So are you  
2 changing your testimony?

3 A No, I'm not.

4 Q So if these systems are not in existence  
5 today, they would have to be developed?

6 A No. I believe I answered earlier that those  
7 systems do exist for retail services and there would  
8 need to be some modifications such that a mechanized  
9 system for the types of things that I refer to at  
10 Lines 11 and 12 are made possible in the existing  
11 systems.

12 Q I'm not trying to trick you, I'm just asking  
13 you, do you want to change your testimony to read they  
14 shall "modify these systems"? Because as it reads  
15 today it sounds like the systems do not exist.

16 A My answer to you is I don't wish to change  
17 my testimony, I want to clarify exactly what my intent  
18 was.

19 Q Whether they're developed or modified, will  
20 Sprint and GTE Florida incur costs in either  
21 developing or modifying these systems?

22 A I would think some costs, yes.

23 Q And who should bear those costs?

24 A GTE and Sprint.

25 Q You don't believe the ALECs should bear any

1 of the costs of the development or modification of  
2 these systems?

3 A That's correct, for the reasons I previously  
4 stated.

5 Q The reasons you stated is because you need  
6 them and we have them?

7 A I don't recall having said that, sir.

8 Q Well, what was, tell me again what the  
9 reasons were why the ALECs should not compensate the  
10 LECs for the development or modifications of these  
11 systems.

12 A I believe my answer was really two-fold.  
13 One, that there would obviously be an incentive to  
14 overstate the cost and to perhaps misclassify costs  
15 that are really not related to this and claim that  
16 those costs should be recovered from the new  
17 competitors of GTE and Sprint. Because any cost that  
18 could be shifted to your competitor would certainly be  
19 a -- it would provide a competitive advantage, at  
20 least in the short run, for GTE and Sprint. I should  
21 say, an additional competitive advantage.

22 The second point of my answer previously was  
23 that those interfaces will be needed in both  
24 directions; and at least as to the interface, those  
25 things will benefit not only the new entrant but will

1 also benefit GTE and Sprint to the extent that they  
2 need visibility into the systems of the ALECs.

3 Q Will the ALECs be required to develop  
4 similar systems?

5 A Absolutely.

6 Q And where will you recover the cost of the  
7 development of those systems?

8 A From the same source that I would recommend  
9 that GTE and Sprint recover those costs when they  
10 incur them, and that is from their end users. That's  
11 a cost of doing business.

12 Q So your local prices will reflect the cost  
13 of the development of these systems?

14 A Yes.

15 Q Now if the LECs have already elected price  
16 regulation and therefore cannot increase their rates  
17 to recover these costs, their local exchange prices,  
18 who then will bear the costs of the development of  
19 these systems?

20 A If your question is which class of customer  
21 will have to bear that cost, I think the answer is it  
22 can't be known.

23 Q Well, shouldn't the class of customers that  
24 caused the cost pay for them?

25 A I have not, I have not admitted that there

1 is a class of customer that causes that cost, so  
2 you're asking me to presume something I think in that  
3 question.

4 Q Indeed, no LEC customer has caused these  
5 costs to be incurred, isn't that correct? These costs  
6 have been incurred because they have been caused by  
7 the introduction of competition and shouldn't the  
8 competitors therefore bear these costs?

9 A I think the answer is an emphatic no that  
10 the new entrants should bear those costs. I think  
11 perhaps you touched on the right answer in your  
12 question, which is, it's not the existence of the  
13 competitor that caused those costs to be incurred, it  
14 is the existence of competition.

15 If you have this model, as I suggested  
16 earlier, where anything that the incumbents have to do  
17 that they can remotely claim is related to something  
18 that is needed in a new network of networks kind of  
19 environment, if they can claim that those costs need  
20 to be shifted to the new entrants, what you will have  
21 is you will have a situation where competition does  
22 not develop because you will have a recipe to  
23 disadvantage at the go-down all of those who could  
24 potentially bring the benefits of competition to the  
25 Florida marketplace.

1 Q So you are suggesting the main reason why  
2 the ALECs shouldn't bear these costs is because the  
3 LECs have an incentive to improperly shift costs?

4 A To some extent. As I have already  
5 explained, there's a couple of reasons why I'm saying  
6 that. One very good example of exactly what I'm  
7 talking about was recently seen in the situation in  
8 Illinois with respect to MSA1 --

9 MR. FONTS: I'm going to object to this  
10 answer, it is not responsive to my question.

11 CHAIRMAN CLARK: I'm sorry, Mr. Fons, what  
12 was your question?

13 MR. FONTS: My question was, in other words,  
14 the main reason why you are saying that the ALECs  
15 should not bear these costs is because the LECs have  
16 an incentive to shift, improperly shift, the cost to  
17 the ALECs?

18 MR. MELSON: And the witness was giving an  
19 example of why that was one of the bases for his  
20 recommendations.

21 MR. FONTS: He's reaching outside of the  
22 state of Florida and any of the LECs that are present  
23 here in this particular proceeding.

24 If he wants to indicate where these LECs  
25 have improperly shifted costs to this particular ALEC,

1 that's fine. But for him to suggest what happened in  
2 Illinois is going to happen here is outside the scope  
3 of the question I asked.

4 CHAIRMAN CLARK: Mr. Fons, if that's the  
5 basis on which he is recommending it, I think he can  
6 make that answer.

7 MR. FONS: All right.

8 CHAIRMAN CLARK: Go ahead, Mr. Price.

9 A In the context of the Illinois proceeding on  
10 local number portability for the Chicago MSA, what we  
11 saw was GTE come in with a proposal that said that  
12 number portability would require them to upgrade a  
13 number of their end offices.

14 They wanted to take their old equipment that  
15 they had in their end offices, trash it, put in  
16 brand-new digital equipment which we believed they  
17 should already be providing to their end users anyway,  
18 and then claim that the cost of replacing that end  
19 office was the cost that was due to number  
20 portability, and to try to shift those costs to the  
21 new entrants and claim that it was as a result of the  
22 new entrant's desire to have the number portability  
23 that those costs were incurred.

24 The number of dollars that we were looking  
25 at in that instance was something on the order of \$100

1 million. It was not small change and it was a huge  
2 misallocation, in my view, of costs that really had  
3 nothing to do with implementing number portability.

4 Yes, it is true that perhaps number  
5 portability can't be made available in the types of  
6 end offices that they had. But the fact that they had  
7 obsolete end office equipment was a problem that they  
8 created of their own choosing.

9 So in my view that's a wonderful example.  
10 Because, really, the cost of number portability is  
11 probably in the range of a few millions of dollars to  
12 GTE as opposed to \$100 million, which is what they  
13 claimed in the Illinois proceeding.

14 Q The regulatory process worked in that  
15 situation, didn't it, Mr. Price?

16 A Well, actually all of those costs were in an  
17 informal process where Staff was sort of acting as  
18 mediator. What happened was I think there was a bit  
19 of embarrassment when the other parties at the table  
20 pointed out that those costs were not at all brought  
21 into question by the decision to offer end users the  
22 ability to retain their number when they chose a new  
23 provider.

24 Q So in other words the process worked. You  
25 had an opportunity to challenge those costs, didn't

1 you?

2 A Yes. But again my concern that I stated  
3 earlier was that an incentive exists. And I think my  
4 example points out that not only does the incentive  
5 exist but there are those who would act on that  
6 incentive.

7 Q And the opportunity always exists, doesn't  
8 it, Mr. Price, for accidents to happen, unintentional  
9 things to take place, and that's what the regulatory  
10 process is all about is so that the parties can try to  
11 work out their differences, and if not able to work  
12 them out, to come to the Commission to be mediated?  
13 Isn't that what the process is all about?

14 A And I believe in that spirit was the context  
15 of my answer that because of that incentive to  
16 misallocate, overstate costs, that it was appropriate  
17 for both sides to recover whatever costs they incur in  
18 the development of their systems and the mechanized  
19 interfaces so that the end user can benefit in a new  
20 environment where we have more than one provider of  
21 service.

22 Q Mr. Price, again, if you were -- if we have  
23 a complaint process that can take care of those  
24 problems, then you don't have a reason why the ALEC  
25 should not bear some of the cost of the development of

1 these systems. Would you agree with that?

2 A No, sir, I would not.

3 Q Well, it seems to me that if you are causing  
4 a cost to be incurred and your only reason why you  
5 don't want to pay that cost is the potential for  
6 someone to misallocate the cost, then you really  
7 haven't given a reason why you should not bear those  
8 costs, have you?

9 A I would disagree with that, sir.

10 Q Let's put it another way. Are you saying  
11 that Sprint-United/Centel in Florida will misallocate  
12 their costs?

13 A I'm saying the potential exists.

14 Q And if the potential exists, you do under  
15 the statute have a complaint process with the  
16 Commission, don't you?

17 A Yes.

18 Q And if the complaint process is there and  
19 you can solve the misallocation problem, then there  
20 isn't any misallocation, is there?

21 A Well, I would answer slightly differently  
22 and state that if the appropriate policy were enacted  
23 by the Commission at the outset then there would also  
24 not be any misallocation problem nor would there be a  
25 need later on to hear a complaint brought about by the

1 lack of an appropriate policy at the outset.

2 Q And I would agree with you, Mr. Price.  
3 Wouldn't it be proper for this Commission to state  
4 that the ALECs are to bear the costs of any of these  
5 systems and that the LECs will submit to the  
6 Commission and to the ALECs their cost support for  
7 such prices?

8 A No, for the reasons that I have already  
9 stated.

10 Q You just don't want to pay the costs, do  
11 you?

12 A Nor do I think that GTE and Sprint would  
13 want to pay the cost of my developing billing systems  
14 and my developing order entry systems and my  
15 developing all the various pieces of my back office  
16 systems that will be necessary for me to provide  
17 services to end users and that will also have to  
18 provide visibility in an unbundled network to unbundle  
19 network elements that GTE or Sprint or someone else  
20 might want to order from me in the future.

21 Q Have you asked them whether they were  
22 willing to do that?

23 A I don't know.

24 MR. FONS: I have no further questions.

25 CHAIRMAN CLARK: Staff?

1 MR. EDMONDS: Staff has no questions.

2 CHAIRMAN CLARK: Commissioners? Mr. Melson.

3 MR. MELSON: No redirect. And I would move  
4 Exhibit 21.

5 CHAIRMAN CLARK: Exhibit 21 will be admitted  
6 in the record without objection.

7 Thank you, Mr. Price.

8 (Exhibit No. 21 received in evidence.)

9 (Witness Price excused.)

10 - - - - -

11 MR. MELSON: I would call Dr. Cornell.

12 **NINA W. CORNELL**

13 was called as a witness on behalf of MCI Metro Access  
14 Transmission Services, Inc. and, having been duly  
15 sworn, testified as follows:

16 **DIRECT EXAMINATION**

17 BY MR. MELSON:

18 Q Would you state your name and address,  
19 please, Dr. Cornell?

20 A My name is Nina W. Cornell. My address is  
21 1290 Wood River Road, Meeteetse, M-E-E-T-E-E-T-S-E,  
22 Wyoming 82433.

23 Q And what is your occupation or profession?

24 A I'm an economist.

25 Q And you're giving testimony in this

1 proceeding in support of MCI Metro; is that correct?

2 A That's my belief, yes.

3 MR. MELSON: We've got three pieces of  
4 testimony, Chairman Clark.

5 CHAIRMAN CLARK: I think I have them.

6 MR. MELSON: Okay. We're going to put in  
7 only a piece of one of them in an effort to reduce the  
8 length of the record here.

9 CHAIRMAN CLARK: Okay.

10 Q Dr. Cornell, have you prefiled direct  
11 testimony in this docket dated February 6, 1996,  
12 consisting of 37 pages?

13 A I'm checking the pages. Yes.

14 Q And have you also prefiled rebuttal  
15 testimony in this docket dated February 20, 1996, and  
16 consisting of 14 pages?

17 A Yes.

18 Q Do you have any changes or corrections to  
19 those two pieces of testimony?

20 A Not to my knowledge.

21 Q And if I were to ask you the same questions  
22 that are in those two pieces of testimony today, would  
23 your answers be the same?

24 A Yes.

25 MR. MELSON: Madam Chairman, I would ask

1 that the direct testimony dated February 6 and  
2 rebuttal testimony dated February 20th be inserted  
3 into the record as though read.

4 CHAIRMAN CLARK: The direct testimony filed  
5 on February 6th and the rebuttal testimony filed on  
6 February 20th will be inserted into the record as  
7 though read.

8 Q (By Mr. Melson) Dr. Cornell, did you also  
9 prefile another piece of testimony in this docket on  
10 January 26, 1996, consisting of 40 pages?

11 A Yes.

12 MR. MELSON: Madam Chairman, depending on  
13 whether you read the cover sheet or the bottom of the  
14 page, in one place it is labeled as direct, in another  
15 place it is labeled as rebuttal. It is in fact  
16 rebuttal testimony.

17 Q (By Mr. Melson) Dr. Cornell, do you have  
18 any changes or corrections to that testimony?

19 A Well, we have a huge deletion, as I  
20 understand it.

21 Q Would you do that now -- let me ask it this  
22 way. We intend to offer Page 1 of that testimony,  
23 Lines 1 through 4. We then intend to delete  
24 everything up until Page 38; and then offer Page 38,  
25 Line 12, to Page 40, Line 3, which is the conclusion

1 of testimony.

2           What we would leave in is the first four  
3 lines on Page 1. We would then delete everything  
4 until you get to Page 38, Line 11. Beginning on 38,  
5 Line 12 to the end, we would include that.

6           And Dr. Cornell, is the testimony in the  
7 part we're going to seek to have admitted still true  
8 and correct?

9           A     Yes.

10           MR. MELSON: We'd ask that those portions of  
11 that prefiled testimony be inserted into the record as  
12 though read.

13           CHAIRMAN CLARK: Those portions identified  
14 today in the rebuttal testimony of Dr. Cornell filed  
15 on January 26 will be inserted into the record as  
16 though read.

17           Q     (By Mr. Melson) Dr. Cornell, attached to  
18 your direct testimony dated February 6, did you have  
19 one exhibit, consisting of your biography?

20           A     That's correct.

21           Q     Do you have any changes or corrections to  
22 that exhibit?

23           A     Other than noting that it probably is by now  
24 missing an appearance or two, it is correct.

25           MR. MELSON: I'd ask that that be marked as

1 Exhibit 22.

2 CHAIRMAN CLARK: That will be marked as

3 Exhibit 22.

4 (Exhibit No. 22 marked for identification.)

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1 Q. PLEASE STATE YOUR NAME AND ADDRESS.

2

3 A. My name is Nina W. Cornell. My address is 1290 Wood River Road, Meeteetse,  
4 Wyoming 82433.

5

6 Q. PLEASE DESCRIBE YOUR EDUCATIONAL AND PROFESSIONAL  
7 BACKGROUND AND EXPERIENCE.

8

9 A. I am an economist in private practice, specializing in microeconomic analysis of  
10 regulatory and antitrust issues. Until late 1988, I was with the firm of Cornell,  
11 Pelcovits & Brenner Economists Inc., of which I was president.

12 Before entering private practice, I was Chief of the Office of Plans and  
13 Policy, Federal Communications Commission (FCC). As Chief of the Office of  
14 Plans and Policy, I served as chief economist to the Commission and participated in  
15 virtually all FCC agenda meetings.

16 Prior to being associated with the FCC, I was the Senior Staff Economist for  
17 regulatory, transportation, environmental, and health and safety issues for the Council  
18 of Economic Advisers (CEA). In this position I reported directly to Charles L.  
19 Schultze, Chairman of the Council.

20 Prior to being with the CEA, I was employed as an economist with the  
21 Council on Wage and Price Stability, where I served on the Task Force on Reform  
22 of Federal Energy Administration Regulations. Before joining the Federal  
23 Government, I spent four years at the Brookings Institution as a Research Associate.  
24 I am a graduate of Swarthmore College, and received my Ph.D. in Economics from  
25 the University of Illinois in 1972.

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Q. HAVE YOU PUBLISHED ANY PAPERS ON TELECOMMUNICATIONS?

A. Yes. I have published a number of papers on the regulation of telecommunications as well as on other regulatory and natural resource issues. A list of my publications is contained in my resume -- Exhibit \_\_\_\_ (NWC-1).

Q. HAVE YOU TESTIFIED BEFORE?

A. Yes. I have served as an expert witness in several court and a number of regulatory proceedings, particularly proceedings involving telecommunications issues. I have also testified before various committees of the US Congress. A list of my testimonies is also contained in my resume.

Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

A. My testimony addresses 1) what are the appropriate rate structure, interconnection rates, or other arrangements for the exchange of local traffic between ALECs on the one hand and Sprint-United and Sprint-Centel (Sprint) and GTE Florida Incorporated (GTEFL) on the other hand; 2) what are the appropriate rate structure, interconnection rates, or other arrangements for the exchange of toll traffic between ALECs and Sprint/GTEFL; 3) what are the appropriate arrangements for physical interconnection between ALECs and Sprint/GTEFL; and 4) what are the appropriate arrangements for the delivery by Sprint/GTEFL of calls originated by and/or terminated to ALECs from other carriers (IXCs, other ALECs, other LECs, wireless

1 carriers) that are not directly connected to the ALEC.

2 In particular, I recommend that the Commission order Sprint/GTEFL to treat  
3 ALECs as co-carriers, and terminate local traffic that originates on the networks of  
4 ALECs using Mutual Traffic Exchange. I also recommend that toll traffic be  
5 exchanged with the payment of switched access charges. ALECs should be allowed  
6 to file their own switched access tariffs, with a requirement only that the ALEC's  
7 total price to originate or terminate a call not exceed the total price that would have  
8 been charged by the incumbent LEC for the same call. I recommend that the  
9 physical arrangements for the physical interconnection of the two networks allow the  
10 ALEC to designate one point of interconnection in each local calling area, and that  
11 the point of interconnection could be at either its switch, at a switch of  
12 Sprint/GTEFL, or at a meet point someplace between the two networks. Finally, I  
13 recommend that the Commission require Sprint/GTEFL to deliver calls originated by  
14 and/or terminated to an ALEC from other carriers that are not directly connected to  
15 the ALEC on exactly the same terms and conditions that Sprint/GTEFL performs that  
16 same function for independent local exchange carriers.

17

18 1. What Are the Appropriate Rate Structure, Interconnection Rates, or  
19 Other Arrangements for the Exchange of Local Traffic between  
20 ALECs and Sprint/GTEFL?

21

22 Q. WHAT POLICY GOAL SHOULD COMPENSATION ARRANGEMENTS  
23 ESTABLISHED FOR TERMINATING LOCAL TRAFFIC BETWEEN  
24 COMPETING LOCAL EXCHANGE NETWORKS BE DESIGNED TO SERVE?

25

1 A. Whatever compensation arrangements are adopted should foster the ultimate  
2 development of effective competition in local exchange markets.

3

4 Q. WHAT IS EFFECTIVE COMPETITION?

5

6 A. Effective competition exists when a firm cannot raise its prices significantly above  
7 its costs without losing customers to other suppliers in sufficient quantity that it is  
8 forced to bring its prices back in line with costs.

9

10 Q. IS ENTRY THE SAME AS EFFECTIVE COMPETITION?

11

12 A. No. Entry is a necessary first step towards the development of effective competition,  
13 but it is not the same as effective competition. Effective competition requires that  
14 there are enough alternatives available to and adopted by a sufficient number of  
15 consumers that the choices consumers actually make in the market force all of the  
16 firms in that market to bring their prices in line with costs and keep them there.

17

18 Q. WHAT ARE THE OBSTACLES THAT MIGHT PREVENT ENTRY FROM  
19 BECOMING EFFECTIVE COMPETITION IN LOCAL EXCHANGE MARKETS  
20 IN FLORIDA?

21

22 A. Local exchange markets are characterized by significant barriers to entry based on  
23 the nature of current technology and the long period during which consumers have  
24 faced only a monopoly supplier for local exchange service. In addition, the policy  
25 determinations that need to be made could raise equal or even greater artificial

1 barriers to entry. Some of the conditions being proposed for entry, including some  
2 that are being proposed here in Florida and around the country, could limit entry  
3 sufficiently that effective competition could never develop, if any entry ever occurred  
4 at all.

5  
6 Q. WHAT DO YOU MEAN BY BARRIERS TO ENTRY?

7  
8 A. Barriers to entry occur whenever a firm that is not already in the market faces  
9 conditions that would make it have to expect to earn more than the normal return on  
10 investment before it would be a wise business decision to put shareholders' funds at  
11 risk in the market. The main types of barriers to entry arise when 1) a potential  
12 entrant knows that some or all of its investments in that market, once made, cannot  
13 easily be recovered should the entry be unsuccessful; or 2) the entrant knows it will  
14 face costs upon entering that the incumbent firm does not face. In the first case, the  
15 greater the level of investments that would be unrecoverable if entry were  
16 unsuccessful, the higher the barrier to entry, in that the greater the expected return  
17 on those investments would have to be to make the entry a reasonable business risk.  
18 Similarly, the greater the costs the potential entrant would face that the incumbent  
19 does not, the higher the barrier to entry and therefore the greater the expected return  
20 on investment would have to be to make entry a reasonable business risk. Both of  
21 these types of barriers to entry exist today in local exchange markets because of the  
22 nature of the existing technology and consumers' habits. Both of these types of  
23 barriers to entry could be increased artificially by inappropriate policy choices in this  
24 docket.

25

1 Q. WHAT ARE THE NATURAL BARRIERS TO ENTRY INTO LOCAL  
2 EXCHANGE MARKETS?

3  
4 A. Local exchange telephone markets have several important characteristics that naturally  
5 create barriers to entry. First, entry will take very large capital outlays, many of  
6 which may well be unrecoverable if the firm fails in the market. Second, the  
7 construction financed with those capital outlays will take quite some time to be able  
8 to reach beyond a small area. Third, consumers are totally unused to the idea of  
9 multiple firms supplying local exchange services, so very large marketing costs can  
10 be anticipated. Marketing costs are costs that are unrecoverable if the firm is  
11 unsuccessful and has to exit the market. Fourth, firms in telecommunications  
12 markets, unlike almost any other markets, cannot operate completely independently  
13 of each other, affected only by the interaction of what each offers to the public and  
14 how the public responds to those offerings. Instead, all firms in the market must  
15 interconnect and agree to terminate traffic for each other. There are also several  
16 other areas in which cooperation is required for competition to be possible.

17 The first three facts cited above by themselves mean that there are barriers  
18 to entry into local exchange markets that are greater than in many other markets.  
19 The capital and marketing outlays that are unrecoverable if the firm must exit are  
20 barriers to entry caused by the fact that these costs would be sunk once incurred.  
21 Thus, before a firm actually enters a market, it must believe that the expected  
22 revenues from entry are greater than would be the case if there were no large sunk  
23 costs from entry.

24 Given just the first three characteristics of local exchange telecommunications  
25 markets, most entrants are likely to begin small and grow slowly. Entrants must be

1           able to take advantage of any synergies they have with other services they may  
2           provide, in order to start earning revenues as soon as possible to justify the very  
3           large capital outlays needed to expand their networks. In this process, entrants will  
4           be eager to serve any and all customers that they can serve for more than the  
5           marginal costs of adding the customer. Once a firm has installed network facilities,  
6           particularly outside plant, any customer that pays more than the marginal cost of  
7           adding it to the entrant's network will help to pay for the initial investment in that  
8           network.

9                        The entrants also need to be able to concentrate their marketing efforts where  
10           they can get the most exposure for the amount spent, in order to overcome the  
11           entrenched position of the former monopoly firm. This again is best done where the  
12           entrants can take advantage of any synergies they have with other services they  
13           provide.

14

15    Q.    WHAT ARE THE SPECIFIC PRINCIPLES THAT SHOULD GOVERN  
16           COMPENSATION ARRANGEMENTS FOR TERMINATING LOCAL TRAFFIC  
17           IN ORDER TO PREVENT THOSE ARRANGEMENTS FROM RAISING  
18           ARTIFICIAL BARRIERS TO ENTRY IN LOCAL EXCHANGE MARKETS IN  
19           FLORIDA?

20

21    A.    There are at least three principles that should govern compensation arrangements for  
22           terminating local traffic. First, competing local exchange carriers must be treated as  
23           co-carriers, not customers, in recognition of the fact that the need for interconnection  
24           becomes mutual as soon as an entrant signs up its first customer. Once an entrant  
25           gains that first customer, each has a mutual need for services from the other if each

1 is to offer its customers the ability to reach all other telephone subscribers in the local  
2 exchange. Thus, compensation arrangements for terminating local exchange traffic  
3 must be reciprocal. If the compensation arrangements are not reciprocal, the firm  
4 that must pay more faces a barrier to entry. This is different from the situation with  
5 interexchange carriers, who are customers of the incumbent local exchange carriers.

6 Second, it is very important that the compensation arrangements for  
7 terminating local exchange traffic foster efficiency rather than inefficiency. The fact  
8 that each carrier will need the other should not be used as a reason to create an  
9 upward spiral in either local exchange costs or rates, or to try to impose  
10 anticompetitive terms and conditions on entrants by incumbents. Firms that are just  
11 as efficient as incumbent firms should not be discouraged from entering the market  
12 because of the type of compensation arrangements for terminating local exchange  
13 traffic that are adopted.

14 Third, the compensation arrangements for terminating local traffic should not  
15 force entrants to select one technology over another or one network architecture over  
16 another. One of the major benefits from opening local exchange markets to entry and  
17 the development of effective local exchange competition is that the residents of the  
18 state can benefit from competition between different technologies and involving  
19 different architectures of service. If the compensation arrangements for terminating  
20 traffic skew the technology or architecture choices of entrants, however, this benefit  
21 from entry will be reduced or eliminated. This would not be in the public interest.

22

23 Q. WHAT DO YOU MEAN BY ARCHITECTURE IN YOUR LAST ANSWER?

24

25 A. By architecture, I mean such elements of service as the decision about how many

1 switches to place and where to place them in terms of the overall networks of the  
2 entrants. The decisions made about these issues by the incumbent local exchange  
3 carriers have been influenced by a large number of factors, including their own  
4 historical practices. The current relationship of total customers to numbers of  
5 switches may no longer be efficient. Entrants should not be forced by the  
6 arrangements for terminating local exchange traffic to duplicate the choices made by  
7 the incumbents.

8

9 Q. YOU CALL FOR EQUALLY EFFICIENT FIRMS TO BE ABLE TO ENTER THE  
10 MARKET. ISN'T THE WHOLE PURPOSE OF ALLOWING COMPETITION TO  
11 HAVE MORE EFFICIENT FIRMS ENTER THE MARKET?

12

13 A. Not entirely. Competitive entry benefits consumers when equally efficient firms  
14 enter, because they force the incumbent to reflect fully its efficiency in prices and to  
15 become more efficient than it currently is. Currently, whatever is the efficiency level  
16 of the incumbent measured in terms of its total service long run incremental costs,  
17 the prices it is charging are far higher. Entry, if the market is properly structured,  
18 can drive those prices down. If, however, the requirement is that the firm must be  
19 more efficient than the incumbent, there are fewer and fewer firms that can even  
20 enter.

21

22 Q. YOU PREVIOUSLY SAID THAT COMPENSATION ARRANGEMENTS MUST  
23 BE RECIPROCAL. WHAT DO YOU MEAN BY RECIPROCITY?

24

25 A. By reciprocity, I mean that the entrant can charge the same exact price as the

1 incumbent charges for performing the same task, namely terminating a local call.

2

3 Q. WHY WOULD A LACK OF RECIPROCITY CREATE A BARRIER TO ENTRY?

4

5 A. A lack of reciprocity, with the entrant receiving less than the incumbent, creates a  
6 barrier to entry because it prevents a potential entrant that is just as efficient as the  
7 incumbent from receiving the same payments as the incumbent. In this respect, it is  
8 similar to a price squeeze.

9 To be able to sign up any customers at all, an entrant must price below the  
10 incumbent or offer a better service for the same price. Certainly, an entrant cannot  
11 offer the same service for a higher price. If the incumbent is allowed to charge a  
12 higher interconnection price than the entrant, the entrant must be more efficient than  
13 the incumbent in order to be able even to meet the price of the incumbent, let alone  
14 price below the incumbent's price.

15 Suppose that the incumbent is allowed to set the rate for terminating traffic  
16 for the entrant at the incumbent's cost plus 1¢, but the entrant is only allowed to  
17 charge the cost to it of termination. Assume further that traffic is in balance, and  
18 that every call originated by a customer of the entrant terminates on the incumbent's  
19 network. If the entrant is just as efficient as the incumbent, all of its costs are the  
20 same -- except for the cost of termination. Here, because of the lack of reciprocity,  
21 the entrant faces a cost 1¢ higher than the cost to the incumbent. For the entrant to  
22 be able to even charge the same price for a local call that the incumbent charges, it  
23 must be able to provide local calls at a cost to it, before taking into account  
24 interconnection charges, of 1¢ less than providing a local call costs the incumbent.  
25 The entrant, however, is just as efficient as the incumbent. This means that

1 providing local calls costs it the same as it costs the incumbent. As a result, because  
2 its costs of termination have been made 1¢ higher than the cost to the incumbent, the  
3 entrant cannot enter and even match the price of the incumbent. The result is it is  
4 prevented from entering.

5 If instead of all calls terminating on the opposite network, only some do, the  
6 amount by which the entrant must be more efficient is somewhat less, but the effect  
7 does not go away. The effect of not requiring reciprocity in interconnection rates is  
8 to create a barrier to entry.

9

10 Q. WHAT COMPENSATION ARRANGEMENT FOR TERMINATING LOCAL  
11 EXCHANGE TRAFFIC BEST SERVES THE THREE GOALS YOU OUTLINED  
12 ABOVE?

13

14 A. The best compensation arrangement for terminating local exchange traffic that passes  
15 between the networks of two competing local exchange providers is payment for the  
16 terminating function in kind, through mutual traffic exchange, rather than in cash.

17

18 Q. WHY DO YOU RECOMMEND THE USE OF PAYMENT IN KIND, THROUGH  
19 THE USE OF MUTUAL TRAFFIC EXCHANGE, RATHER THAN PAYMENT  
20 IN CASH?

21

22 A. There are at least five reasons why I recommend the use of payment in kind, or  
23 mutual traffic exchange, rather than payment in cash. First, mutual traffic exchange  
24 is obviously reciprocal, thus respecting that all participants are co-carriers. Second,  
25 mutual traffic exchange is by far the least cost means of compensating for terminating

1 traffic, and therefore is the method most likely to help drive local exchange rates as  
2 low as possible. Third, mutual traffic exchange offers the least ability for  
3 Sprint/GTEFL to use the compensation mechanism to try to impose both unnecessary  
4 and anticompetitive costs upon the entrants, thereby making it the method least likely  
5 to result in new unnecessary barriers to entry. Fourth, mutual traffic exchange is  
6 neutral in terms of both the technology and architecture that entrants might choose  
7 to adopt. In this regard, therefore, it is the method most likely to enhance dynamic  
8 efficiency in telecommunications. Fifth, mutual traffic exchange is the only  
9 compensation mechanism that may create some incentive for Sprint/GTEFL to want  
10 to cooperate in developing true number portability, rather than helping Sprint/GTEFL  
11 to benefit further from its absence.

12

13 Q. MUTUAL TRAFFIC EXCHANGE IS OBVIOUSLY RECIPROCAL. WHY DO  
14 YOU SAY IT IS THE MOST EFFICIENT MEANS OF COMPENSATING FOR  
15 TERMINATING LOCAL EXCHANGE TRAFFIC?

16

17 A. Mutual traffic exchange is the most efficient means of compensating for the  
18 termination of local exchange traffic, for at least two reasons. First, because the  
19 termination of traffic will be paid for "in kind" by each carrier, rather than with  
20 money, each carrier has the incentive to minimize the cost of those terminations, an  
21 incentive it does not have under any other form of compensation. Second, mutual  
22 traffic exchange does not impose costs on the system that could only be justified at  
23 most for a transition period.

24 It is very instructive to note that mutual traffic exchange is the dominant  
25 practice that has long been in use between non-competing adjacent local exchange

1 carriers around the country -- and in Florida -- for terminating local (Extended Area  
2 Service) traffic between adjacent territories. Where there is no gain from  
3 anticompetitive or inefficient behavior, carriers seek the most efficient approach. The  
4 dominance of mutual traffic exchange in these relationships suggests strongly the  
5 efficiency of this approach.

6

7 Q. WHY DOES MUTUAL TRAFFIC EXCHANGE CREATE THE BEST  
8 INCENTIVES AVAILABLE TO MINIMIZE THE COST OF TERMINATING  
9 TRAFFIC?

10

11 A. Because of the inherent nature of payments in kind, rather than in cash, the payer  
12 actually has the ability to affect the cost to itself of the "in kind" payment. This  
13 means that each carrier will try to terminate traffic at least cost, thus promoting  
14 efficiency. The result will be to seek out more efficient ways to terminate traffic,  
15 and, if effective competition can develop, these cost savings will be passed on in  
16 reduced local exchange service rates. The likelihood of reduced local exchange  
17 service rates is enhanced under mutual traffic exchange relative to almost all other  
18 forms of compensation because termination in kind means that the cost for  
19 termination is no higher than its total service long run incremental cost, rather than  
20 also including some "contribution."

21 If termination of traffic is paid for with money, as is proposed by  
22 Sprint/GTEFL, one effect is to give the incumbent the incentive to make the cost  
23 inefficiently high and pass that inflated cost on to its competitors. If termination of  
24 traffic is paid for in kind, however, any such cost-raising activities fall on the traffic  
25 terminator, not the traffic originator. Thus, if the incumbents tried to terminate

1 traffic in an inefficient manner, the costs would fall on them, not the entrants. The  
2 result is to encourage the incumbents to terminate traffic in the most efficient manner  
3 possible.

4

5 Q. WHY DOES MUTUAL TRAFFIC EXCHANGE NOT IMPOSE COSTS THAT  
6 ARE JUSTIFIED AT MOST ONLY FOR A TRANSITION PERIOD?

7

8 A. Once all the conditions for effective competition have been established, it is virtually  
9 certain that the amount of compensation that would be due to one network would be  
10 exactly offset by the amount due to the other. Unless there are significant distortions  
11 between networks, the traffic between networks tends to be in balance over time.  
12 This means that it is inefficient for firms to develop measurement and billing  
13 arrangements that can significantly increase the costs of doing business when the  
14 amounts to be paid are going to cancel out over relatively short periods of time. In  
15 earlier testimony in this docket, Mr. Poag states that the recording of usage for  
16 purposes of applying a per minute of use charge requires special software which  
17 Sprint has not deployed in its switches. In fact, Mr. Poag states that because of the  
18 high cost of the software, Sprint does not currently plan to deploy the software in any  
19 switches other than its access tandems. Presumably GTEFL will face similar high  
20 costs for developing and deploying comparable software. Based on information that  
21 I have seen in other states, developing such a measurement and billing system could  
22 more than double the total service long run incremental cost of the switching function  
23 for terminating traffic from the cost without measurement and billing. This is a  
24 significant -- and totally unnecessary -- cost burden to add to local exchange service,  
25 when it can only be justified at best for a relatively brief period of time. It also

1 imposes other costs on local exchange service, costs that fall more heavily on the  
2 entrants than on Sprint/GTEFL. Mutual traffic exchange is much more efficient, as  
3 it prevents the addition of these costs and reflects the likely outcome in a world  
4 where all of the necessary conditions have been met for effective competition,  
5 particularly true number portability.

6

7 Q. WHY DO YOU SAY THAT MUTUAL TRAFFIC EXCHANGE OFFERS THE  
8 LEAST ABILITY FOR SPRINT/GTEFL TO USE THE COMPENSATION  
9 MECHANISM TO TRY TO IMPOSE UNNECESSARY BARRIERS TO ENTRY?

10

11 A. Under mutual traffic exchange, Sprint/GTEFL cannot impose costs on their rivals  
12 through how they provide or bill for compensation. Under any proposal in which  
13 local traffic must be measured, however, Sprint or GTEFL could deploy a  
14 measurement mechanism which is unnecessarily costly, and seek to pass that cost  
15 along to its rivals.

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Moreover, based on the experiences to date with the billing for carrier access charges, the fact of billing will pose additional unnecessary costs in the form of auditing and verification costs. Carrier access bills have been sufficiently in error that it has been cost effective for interexchange carriers to hire people full time to audit and try to get corrections made in these bills. These auditing costs have not been one-time costs, but continue to be incurred today. The costs to the interexchange carriers are less than the savings from what they otherwise would have been required to pay, but these expenditures bring with them no social benefits whatsoever. In other words, these costs are a total dead weight loss to society.

Local exchange users will gain no benefits from duplicating this experience

1 in the local exchange arena. Doing so, moreover, would deny consumers the ability  
2 to have local exchange rates fall as far as they might otherwise fall. These auditing  
3 costs would become another irreducible part of the cost floor for local exchange  
4 service. Because the rates for basic local exchange service are central to the  
5 provision of universal service, it would be bad public policy to insist on arrangements  
6 that raise costs, rather than lowering them.

7  
8 Q. EARLIER, IN LISTING THE ADVANTAGES OF MUTUAL TRAFFIC  
9 EXCHANGE, YOU SAID THAT MUTUAL TRAFFIC EXCHANGE IS NEUTRAL  
10 IN TERMS OF BOTH TECHNOLOGY AND ARCHITECTURE. WHY?

11  
12 A. Mutual traffic exchange is totally neutral in terms of both technology and network  
13 architecture because the amount paid to each participant does not depend upon the  
14 choices of technology or architecture. Each carrier can select the technology and  
15 network architecture that it wants, without having to factor in possible penalties that  
16 could arise under other arrangements for terminating local traffic. This is very  
17 important for the dynamic efficiency of telecommunications. The greatest benefits  
18 to consumers from entry over time will come from the efficient search for and  
19 deployment of new and better technologies for sending and receiving information.

20  
21 Q. WHY MAY MUTUAL TRAFFIC EXCHANGE CREATE AT LEAST SOME  
22 INCENTIVE FOR THE INCUMBENT LOCAL EXCHANGE CARRIERS TO  
23 COOPERATE IN THE DEVELOPMENT OF TRUE NUMBER PORTABILITY?

24  
25 A. Mutual traffic exchange is the only arrangement that has been discussed that may

1 create some incentives -- even if slight -- for the incumbent carriers to cooperate in  
2 the development of true number portability, because the lack of true number  
3 portability may make the costs to the incumbents higher than if true number  
4 portability were present. To the extent that traffic might not be in balance at the  
5 outset, it is likely to be because a significant number of customers do not want to  
6 change their telephone numbers. Some customers, particularly business customers  
7 who are more likely to have more than one line, might respond by splitting their  
8 subscriptions, retaining some lines from the incumbent and along with them their old  
9 telephone numbers, while using the entrant for outgoing traffic. Under mutual traffic  
10 exchange, this would make the incumbent's terminating costs higher than if the  
11 customer moved all of its lines to the entrant.

12 Creating incentives for the incumbent local exchange carriers to cooperate  
13 with the development of true number portability is important, because they benefit  
14 from the lack of true number portability. Thus, they have every incentive to try to  
15 resist its development and deployment, and to try to insist that only entrants should  
16 pay any costs to achieve it. This is not good for the public.

17

18 Q. DO YOU BELIEVE TRAFFIC WILL BE IN BALANCE?

19

20 A. Yes. Networks tend normally to have roughly equal amounts of incoming and  
21 outgoing traffic. Unless very strong incentives exist to try to select customers on the  
22 basis of their incoming or outgoing traffic patterns, the way entrants will build their  
23 networks should produce the same outcome. Entrants will put facilities in certain  
24 locations, and then try to get as many customers as possible in that general location  
25 to subscribe to service using those facilities. Once an entrant has facilities in one

1 neighborhood, the entrant will want to serve as many customers who are there as can  
2 be induced to switch to the entrant, regardless of their particular usage patterns,  
3 because a number of the costs of the facilities do not vary with the number of  
4 customers served. This will be true, moreover, whether the entrant is using fiber or  
5 radio systems. Even radio-based systems have equipment that is geographically  
6 specific and that can be used in common by a number of subscribers, so long as they  
7 live in the relevant geographical area. An entrant, with no customers from whom it  
8 can cross subsidize its services, would be willing to serve any customer who pays  
9 more than the direct costs it imposes, unless again there is both a strong incentive and  
10 the ability to do otherwise.

11 Such an incentive would exist only if serving customers with one pattern of  
12 usage was made prohibitively expensive. This could occur if the rate to entrants for  
13 terminating traffic on the network of the incumbent were made higher than the rate  
14 the entrants could charge the incumbent, or if the compensation for terminating traffic  
15 on the network of the incumbent is very high relative to the price for local calling.  
16 If there were any entry at all under either of these conditions, the entrant would have  
17 a strong incentive to serve customers who had little outgoing local exchange traffic,  
18 but who had a large amount of incoming traffic. Such customers would leave the  
19 entrants paying for many fewer calls to the incumbent while receiving payment for  
20 many more calls from the incumbent.

21 If such an incentive were created, the entrants would also have to know the  
22 ratios of customers' incoming and outgoing traffic. This is not necessarily known or  
23 easy to know by either the customer or the entrant. Most customers do not get  
24 reports of incoming (non-800) traffic. Thus, entrants may not have the ability to  
25 make a distinction among customers based on whether they have mostly incoming or

1 outgoing traffic.

2 In the absence of both an incentive and the ability to distinguish between  
3 customers based on their relative proportions of incoming and outgoing traffic, it  
4 seems much more likely that traffic will be in balance between networks. The  
5 aggregation of the traffic patterns of a number of customers would suggest this  
6 outcome.

7

8 Q. WOULDN'T THE UNEQUAL SIZES OF THE RELATIVE NETWORKS  
9 SUGGEST TRAFFIC WOULD NOT BE IN BALANCE?

10

11 A. No. The relative size of networks does not determine how much traffic will flow in  
12 each direction. The easiest way to see that this is the case is to imagine a small  
13 carrier with only a few customers, but those customers spend their entire waking  
14 hours calling customers of the big network. Because of the number of customers of  
15 the small network, if all of them were to do nothing but call customers of the big  
16 network, they still would not generate a large number of calls. Meanwhile, it only  
17 takes a few calls each from customers of the big network calling customers of the  
18 small network to equal the number of calls that could go from the customers of the  
19 small network to the customers of the big network.

20 For example, if a new entrant were to gain a 2 percent market share in  
21 Tampa, then on average its customers would be likely to make 2 percent of their  
22 local Tampa calls to other customers of the new entrant, and 98 percent of their local  
23 Tampa calls to customers of GTEFL. At the same time, on average GTEFL's  
24 customers would make 98 percent of their local Tampa calls to other GTEFL  
25 customers and 2 percent of their local Tampa calls to customers of the new entrant.

1 But 98 percent of the calls originating on the network of a provider with 2 percent  
2 of the market is the same number of calls as 2 percent of the calls originating on the  
3 network of a provider with 98 percent of the market, leaving the total number of calls  
4 terminated by each provider on the other provider's network in balance.

5

6 Q. YOU RECOMMEND THE USE OF MUTUAL TRAFFIC EXCHANGE TO  
7 COMPENSATE FOR TERMINATING TRAFFIC ORIGINATED ON ANOTHER  
8 LOCAL EXCHANGE NETWORK. IS MUTUAL TRAFFIC EXCHANGE  
9 REQUIRING SPRINT/GTEFL TO TERMINATE THEIR RIVALS' LOCAL  
10 EXCHANGE TRAFFIC "FOR FREE?"

11

12 A. No. It is important to remember that rival local exchange carriers are not customers,  
13 but co-carriers. That means, whenever the rival has acquired a single customer,  
14 traffic will flow both ways. Mutual traffic exchange simply involves each carrier  
15 "paying" for the other to terminate local calls originated by its subscribers by  
16 mutually terminating local calls originated by the customers of the other carrier. That  
17 is why I referred to it as payment "in kind" rather than "in cash."

18

19 Q. DO SPRINT AND GTEFL AGREE THAT INTERCONNECTION  
20 COMPENSATION SHOULD BE BASED ON MUTUAL TRAFFIC EXCHANGE?

21

22 A. No. Sprint and GTEFL have proposed to charge local exchange entrants switched  
23 access charges other than the Carrier Common Line Charge and the Residual  
24 Interconnection Charge. Sprint has also proposed a flat-rated port charge option.  
25 The use of any part of switched access charges is inappropriate.

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Q. WHY WOULD SWITCHED ACCESS CHARGES BE INAPPROPRIATE FOR COMPENSATION FOR TERMINATING LOCAL EXCHANGE TRAFFIC?

A. The use of switched access charges for compensation for terminating local exchange traffic would totally bar entry, because the current regulation of Sprint and GTEFL would prevent them from imputing these rates into their own local exchange rates. If Sprint and GTEFL were able to reset their local exchange rates in order to pass an imputation test, it would make entry at least possible, although it would create a significant and unnecessary upward spiral in local exchange rates. In short, use of switched access charges for compensation for terminating local exchange traffic under Sprint/GTEFL's current regulatory restrictions would deny the public all of the benefits that could come from local exchange competition. Use of switched access charges for compensation for terminating local exchange traffic if Sprint/GTEFL's current regulatory restrictions were relaxed to allow imputation would deny the public one of the two major potential benefits from competition, namely reduced costs and prices.

Even if Sprint and GTEFL were willing to pay the entrant's switched access charges, however, if they also insist that the entrant must mirror the switched access rate structure of Sprint/GTEFL, reciprocity in that part of the interconnection charge could occur only if the entrant mirrored the architecture, at least, of the incumbent, rather than picking the architecture that would otherwise be efficient, as discussed below. This would deny the public the other major potential benefit from entry, namely the promotion of more rapid deployment of new and better technologies.

1 Q. IN YOUR INITIAL DISCUSSION OF THE PRINCIPLES THAT SHOULD BE  
2 SERVED BY THE METHOD OF COMPENSATING FOR TERMINATING  
3 LOCAL EXCHANGE TRAFFIC BETWEEN COMPETING LOCAL EXCHANGE  
4 CARRIERS, YOU NOTED THAT IT WAS IMPORTANT THAT THE METHOD  
5 OF COMPENSATION NOT BE USED TO CREATE AN UPWARD SPIRAL OF  
6 LOCAL EXCHANGE COSTS OR RATES. YOU ALSO SAID THE USE OF  
7 SWITCHED ACCESS CHARGES FOR COMPENSATION WOULD EITHER BAR  
8 ENTRY OR CREATE SUCH AN UPWARD SPIRAL, ASSUMING A CHANGE  
9 IN HOW SPRINT/GTEFL IS REGULATED. HOW?

10

11 A. The use of switched access rates create an intolerable price squeeze. The only way  
12 for the Commission to allow these rates to go into effect and not kill any possibility  
13 whatsoever for competition would be to require Sprint/GTEFL to impute the same  
14 rates into all of their local exchange rates. Imputing switched access rates into local  
15 exchange rates, however, would mean raising basic local exchange rates for reasons  
16 other than an increase in the economic cost of providing local exchange service.

17

18 A far better approach would be to adopt mutual traffic exchange. Mutual  
19 traffic exchange does not create a conflict between Sprint/GTEFL's current regulation  
20 and the possibility of gaining any benefits of entry. This is in addition to all of the  
21 other benefits I have listed above that arise from the use of mutual traffic exchange.

21

22 Q. WHAT DO YOU MEAN BY A PRICE SQUEEZE?

23

24 A. By the term "price squeeze" I am referring to a particular relationship between two  
25 prices (or two sets of prices). This relationship can arise whenever a monopoly

1 supplier of inputs to other firms also competes to sell the end user service. If that  
2 monopoly supplier sets the price or prices of the bottleneck monopoly inputs at a  
3 level such that its end user price does not recover both the price(s) for the monopoly  
4 input(s) and the rest of the costs of producing the end user service(s), a price squeeze  
5 exists. Under a price squeeze, a dependent competitor that is just as efficient as the  
6 monopolist cannot cover all of its costs at the price for the end user product charged  
7 by the monopolist. There is absolutely no way that an unregulated, competitive firm  
8 can lose a penny on every sale and make it up in volume. Thus, when a firm sees  
9 that it is going to be subject to a price squeeze, what it sees is a barrier to entry.

10

11 Q. IF SWITCHED ACCESS CHARGES ARE USED FOR COMPENSATION, WHY  
12 WOULD RECIPROCITY ONLY BE POSSIBLE, IF AT ALL, IF THE ENTRANT  
13 MIRRORED THE ARCHITECTURE OF THE INCUMBENT?

14

15 A. Switched access charges are composed of a series of rate elements charged for the  
16 use of *different piece parts* of the incumbent's network to terminate a call. Except  
17 for the rate elements designed to pay "contribution," if the piece part is not used,  
18 then the rate element is not charged. The proposals to use switched access charges  
19 for compensation mostly include the same requirement. Thus, the entrant would only  
20 be allowed to charge for the same categories of costs that the incumbent claims are  
21 the costs of providing service.

22 Suppose an entrant placed only a single switch, using much more "loop" plant  
23 than the incumbent. The total cost to it to terminate a local call for the incumbent  
24 may or may not be less than the incumbent's costs, but those costs may be in  
25 different categories from those used by the incumbent. If the only costs the entrant

1 can recover in its local interconnection tariff are switching and transport costs,  
2 however, it will be handicapped relative to the incumbent, and may be prevented  
3 from recovering all of its costs regardless of whether they are less than or equal to  
4 the incumbent's costs. Particularly in the early years of its existence, an entrant will  
5 mostly be terminating calls from customers of the incumbent rather than from its own  
6 customers. Because of the inability to recover its costs using its preferred  
7 architecture, it will face an incentive to try to mirror the architecture of the  
8 incumbent, even if it were not the most efficient architecture. This would be very  
9 bad for the public, because it would reduce the dynamic efficiency benefits from  
10 entry.

11

12 Q. WOULD A COMPENSATION PROPOSAL SIMILAR IN STRUCTURE TO  
13 SWITCHED ACCESS CHARGES BUT WITH THE ACTUAL RATES SET JUST  
14 AT COST BE THE SAME AS MUTUAL TRAFFIC EXCHANGE IN TERMS OF  
15 ITS BENEFITS?

16

17 A. No. Although setting the rates at cost instead of above cost would clearly be  
18 preferable, such a compensation arrangement still would lead to significantly higher  
19 costs for local exchange service than a system of mutual traffic exchange, for the  
20 reasons discussed above. It would also still create uneconomic incentives for the  
21 entrants to adopt an architecture or technology that is less efficient, solely in order  
22 not to be penalized by the compensation mechanism, as discussed above.

23

24 Q. IN ADDITION TO DETERRING ENTRY, ARE THERE ANY OTHER  
25 PROBLEMS CREATED IF COMPENSATION IS NOT RECIPROCAL?

1

2 A. Yes. There is a second problem caused if compensation is not reciprocal, and that  
3 is that even if a more efficient firm enters the market, that firm is required to transfer  
4 its efficiencies to the incumbent, rather than being able to use its *greater efficiency*  
5 to gain market share. This also reduces the likelihood of a potential entrant actually  
6 entering the market.

7 This problem can be seen by an example. Suppose there are two firms in the  
8 market, and each terminates on the other network half of the local calls that originate  
9 on its network. Suppose it costs the incumbent 3¢ per call to terminate local calls,  
10 but it only costs the entrant 2¢. Suppose further that it also costs the incumbent 3¢  
11 per call for origination, but it only costs the entrant 2¢ per call. If the entrant has  
12 to charge the incumbent only 2¢ per call terminating into the entrant's network, the  
13 incumbent could offer its own customers calling at 5 and 1/2¢ per call, which is less  
14 than the 6¢ per call that it currently costs the incumbent to originate and terminate  
15 using only its own network. The entrant, meanwhile, will have to charge 4 and 1/2¢  
16 per call in order to recover the interconnection charges that it has to pay the  
17 incumbent. If, however, the entrant were allowed to charge the incumbent 3¢ per  
18 call for termination, equal to the charge of the incumbent, it could charge 4¢ per call  
19 to its own customers, passing on to them the full benefits of its greater efficiency.  
20 The incumbent would have to charge the full 6¢ per call until it became as efficient  
21 as the entrant. In this example, the market would send the right information to  
22 consumers about which firm is more efficient, and the right signals to the incumbent  
23 to become more efficient.

24

25 Q. SOME LOCAL EXCHANGE COMPANIES HAVE STATED THAT "BILL AND

1           KEEP" DOES NOT MEET THE STATUTORY REQUIREMENT THAT THE  
2           INTERCONNECTION CHARGE COVER ITS COSTS. IN YOUR OPINION,  
3           DOES MUTUAL TRAFFIC EXCHANGE MEET THIS STATUTORY  
4           REQUIREMENT?

5

6       A.    Yes. The price ultimately charged by Sprint/GTEFL for local interconnection will  
7           set the appropriate market price that Sprint/GTEFL would be required to pay for  
8           terminating traffic on the network of a new entrant. If traffic is in balance, as would  
9           be expected once there is a true database solution to local service-provider number  
10          portability, then under Mutual Traffic Exchange, Sprint and GTEFL will each receive  
11          a service for which they would have had to pay that same amount of money.

12

13       Q.    IF THE COMMISSION BELIEVES THAT COMPENSATION SHOULD BE IN  
14           CASH, RATHER THAN IN KIND, WHAT RATE LEVEL WOULD BE  
15           APPROPRIATE FOR COMPENSATION FOR TERMINATING LOCAL CALLS?

16

17       A.    The rate should be set at the direct economic costs of supplying the termination by  
18           the incumbent, and no higher. Only if this is the rule for the rates for compensation  
19           for terminating local calls can the price for local exchange services have any chance  
20           of falling to the social cost of providing them.

21

22       Q.    YOU USED THE TERM "SOCIAL COST" IN YOUR LAST ANSWER. WHAT  
23           IS SOCIAL COST AND HOW DOES IT RELATE TO ECONOMIC COSTS?

24

25       A.    The social cost of providing a good or service is equal to the cost of the resources

1 that society must give up to produce that good or service. The economic cost of  
2 providing a good or service is equal to the least cost firms in the given market would  
3 face when operating efficiently. Both concepts of cost include a competitive level of  
4 profit, but not any higher level of profit. If all goods and services are sold at their  
5 social cost, then the economic costs of services will be equal to their social costs.

6 If, however, some intermediate goods or services -- that is, goods or services  
7 used as inputs in the production of other goods or services -- are priced above their  
8 social costs, the economic costs of the goods or services that use them will be higher  
9 than their social costs. This is in fact the case today for interexchange services.  
10 Because switched access is priced far above its social cost, the economic cost of  
11 interexchange services is also far above the social cost of interexchange services. The  
12 same thing could happen to local exchange services if the rates for interconnection  
13 and other essential monopoly input functions needed to supply local exchange services  
14 are allowed to be set in excess of their social cost.

15

16 Q. WHY WOULD RATES FOR COMPENSATING FOR TERMINATING LOCAL  
17 EXCHANGE TRAFFIC HIGHER THAN THE DIRECT COST OF THE  
18 TERMINATIONS RESULT IN PRICES FOR RETAIL SERVICES BEING  
19 UNABLE TO FALL TO THE SOCIAL COSTS OF SUPPLYING THEM?

20

21 A. If the Commission wants effective competition to be able to drive retail service prices  
22 down to the social cost of providing them, it needs to set interconnection service  
23 prices at the direct cost of supplying them, and look only to retail services for  
24 collection of all of the costs of the incumbent local exchange carriers other than the  
25 direct cost of providing interconnection services. Telecommunications is unlike

1 almost any other market in the fact that carriers cannot be in business without  
2 interconnecting to competitors. Carriers, however, do not go into business for the  
3 purpose of supplying interconnection, but for the purpose of serving end users.  
4 Therefore, carriers should look to end users for the recovery of all of the indirect  
5 costs of the firm.

6 It is very important to understand that whatever prices are set for  
7 interconnection services become part of the economic costs of the companies that  
8 must pay them. Connecting carriers cannot compete down the prices for  
9 interconnection services, and will be denied service if they do not pay the asking  
10 price. Thus, these prices are real costs to the connecting carriers, and are part of the  
11 economic costs of providing retail services, even if those prices are above the social  
12 costs to provide interconnection services. If interconnection service prices are any  
13 higher than the direct cost of supplying them, effective competition may develop in  
14 terms of driving prices down to the economic costs of supplying retail services, but  
15 those costs will be higher than the social costs of supplying those retail services.

16 If there is to be any competition at all for the retail services that the  
17 incumbent local exchange companies provide at the same time that they provide these  
18 necessary interconnection services for their rivals, the prices the incumbents charge  
19 their rivals for the interconnection services must be part of the retail price floor  
20 facing the incumbent carriers as well. Otherwise, the incumbent local exchange  
21 carriers can charge their rivals more for interconnection services than they recover  
22 for those same services, which would allow the incumbents to underprice equally  
23 efficient rivals in the retail market. This is anticompetitive, and prevents the  
24 development of competition for the retail services affected. Thus, if any competition  
25 is to be possible, the incumbent local exchange carriers must recover at least the

1 same prices for interconnection services as they charge their rivals. As a result,  
2 whatever those prices are become part of the economic costs of the retail services.

3 The interconnecting carriers do not only have costs for interconnection. They  
4 also have direct costs for other inputs into their retail services. Further, they also  
5 have indirect costs that they must recover through markups over direct cost in their  
6 retail service rates. These are costs of doing business that do not vary with the  
7 output of the retail service, such as overhead costs. If the interconnection rates that  
8 the interconnecting carriers must pay include some of the recovery of the indirect  
9 costs of the incumbent local exchange carriers, two bad effects occur. First, the  
10 basic level of prices in the retail market is higher than it would be otherwise, as new  
11 entrants will have to price to recover their own indirect costs, and to help recover the  
12 indirect costs of the incumbent. Second, the amount of recovery of the incumbent's  
13 indirect costs in interconnection rates will be shielded completely from competitive  
14 pressure, since those indirect costs will be imposed on the competitors, and cannot  
15 be competed out.

16 If interconnection prices are set at cost, but no higher, all firms will have to  
17 look to their retail customers for recovery of all of their indirect costs, as well as for  
18 recovery of their direct costs of providing the retail services. A firm that is  
19 inefficient at supplying the functions that do not vary with the volume of service will  
20 discover that it has to set its retail prices higher than its more efficient competitors.  
21 This will cause it to lose market share, and so force it to become more efficient at  
22 performing those functions. This is to the benefit of consumers.

23 If, however, interconnection prices include a markup over cost, this same  
24 market pressure cannot develop for the amount of the markup contained in  
25 interconnection rates. Basically, it is very important to remember that

1 interconnection rates cannot be competed down. Under those circumstances, the  
2 costs recovered in those prices cannot face a market test for efficiency.

3 If the Commission wants competition to bring retail prices down to the social  
4 cost of providing them (or as close to that level as is possible), it will have to set the  
5 prices for the necessary interconnection services to recover just the economic cost of  
6 providing them and no more. This means pricing these services to recover the total  
7 service long run incremental cost (TSLRIC) of supplying them, but not including any  
8 markup over that cost level in interconnection prices.

9

10 Q. DO THE SPRINT/GTEFL PROPOSALS TO OFFER LOCAL  
11 INTERCONNECTION AT SWITCHED ACCESS RATES, EXCLUDING THE  
12 CCL AND THE RIC, RESULT IN A PRICE THAT IS ABOVE THE TSLRIC  
13 COST OF PROVIDING THE INTERCONNECTION?

14

15 A. Although I have not reviewed Sprint's and GTEFL's cost data, the price for switched  
16 access almost certainly includes a contribution above direct economic costs. In the  
17 recent hearing involving BellSouth's local interconnection arrangements, for example,  
18 BellSouth's switched access charge, excluding the CCL and RIC, was 1.052 cents per  
19 minute, while the cost of those functions was much less, and could be expressed in  
20 tenths of a cent per minute.

21

22 Q. IS SPRINT'S PROPOSAL FOR A FLAT-RATED INTERCONNECTION CHARGE  
23 ON A PER PORT BASIS AN APPROPRIATE ALTERNATIVE TO MUTUAL  
24 TRAFFIC EXCHANGE?

25

1 A. No. Mr. Poag's testimony in response to the Continental and Times-Warner petitions  
2 makes clear that the per port charge is above cost. Moreover, it suffers from the  
3 same defects as a charge per minute of use in that it imposes unnecessary transactions  
4 costs of billing, auditing, and the like. Even if these defects were cured, it still  
5 should not be offered as the exclusive option.

6  
7 Q. MR. POAG'S DISCUSSION OF SPRINT'S FLAT-RATED PORT PROPOSAL  
8 MAKES CLEAR THAT SPRINT PROPOSES TO CHARGE MORE FOR  
9 TANDEM INTERCONNECTION THAN FOR END OFFICE  
10 INTERCONNECTION, BUT THAT IT INTENDS TO COMPENSATE  
11 ENTRANTS ONLY FOR END OFFICE INTERCONNECTION. IS THIS  
12 APPROPRIATE?

13  
14 A. No. Mr. Poag's discussion of the tandem functions at page 16, line 14, to page 17,  
15 line 6 of his testimony in response to the Continental and Times-Warner petitions  
16 makes clear that the tandem is an essential facility that can only be provided by  
17 Sprint. Sprint will not rehome all of its central offices on a switch provided by an  
18 entrant for all functions served by a tandem, and there are large economies of scope  
19 in the tandem function. Given these two facts, only Sprint can provide the tandem  
20 function. Requiring entrants to pay more for tandem interconnections than for end  
21 office interconnections is simply an abuse of Sprint's monopoly over tandem  
22 functions. Entrants cannot duplicate this function, and so cannot avoid paying more  
23 for interconnections than does Sprint.

24  
25 Q. MR. POAG CLAIMS THE DIFFERENTIAL IS NECESSARY TO REFLECT

1 DIFFERENCES IN COST, AND THAT ENTRANTS CAN BUILD TO EACH  
2 END OFFICE TO AVOID THE EXTRA TANDEM CHARGES. DO YOU  
3 AGREE?

4  
5 A. This would only be the case for entrants that wanted to use Mr. Poag's flat-rate  
6 ports, not the per minute of use charge. Sprint is only going to install the special,  
7 high-cost software in the access tandem, apparently forcing all entrants to choose  
8 between using only tandem interconnections and being able to pay a charge per  
9 minute of use, or having to pay for a port to avoid paying for tandem functions.  
10 Sprint should not be allowed to force these choices on entrants. Instead, if the  
11 Commission rejects the best solution of Mutual Traffic Exchange, it should require  
12 the rate paid, whether per port or per minute, to be the same whether the  
13 interconnection is at the tandem or the end office, and that it be reciprocal.

14  
15 Q. MR. POAG DEFENDS SPRINT'S PROPOSAL TO CHARGE MORE FOR  
16 INTERCONNECTION USING A TANDEM BY CLAIMING THAT THE COSTS  
17 TO SPRINT OF USING A TANDEM "OFFSET" THE CHARGES TO  
18 ENTRANTS. IS HE CORRECT?

19  
20 A. No. First of all, not all of Sprint's local traffic uses a tandem. Second, the charge  
21 to entrants is higher than Sprint's cost, which is all that Sprint incurs for its own  
22 traffic.

23  
24 2. What Are the Appropriate Rate Structure, Interconnection Rates, or  
25 Other Arrangements for the Exchange of Toll Traffic Between ALEC

1 and Sprint/GTEFL?

2

3 Q. WHAT SHOULD BE THE CHARGES FOR TOLL TRAFFIC EXCHANGED  
4 BETWEEN ALECS AND SPRINT/GTEFL?

5

6 A. Toll traffic should be exchanged using each carrier's switched access charges. Sprint  
7 and GTEFL already have access charge tariffs. Each ALEC should be allowed to  
8 file an access charge tariff of its own, with the only requirement being that the total  
9 charge for originating and terminating toll calls by the ALEC not exceed the total rate  
10 that would have been paid to Sprint/GTEFL.

11

12 3. How Should Competing Local Exchange Networks be Physically  
13 Interconnected?

14

15 Q. HOW SHOULD THE NETWORKS OF ENTRANTS AND OF INCUMBENTS BE  
16 INTERCONNECTED PHYSICALLY?

17

18 A. The major requirement for physical interconnection is that it should be done in the  
19 most efficient manner possible. This means that interconnection should be allowed  
20 at any feasible point of interconnection, rather than being arbitrarily limited to only  
21 certain points, and that the facilities -- trunks -- that actually join the two networks  
22 also be as efficient as possible. Additionally, signaling networks need to be  
23 interconnected and need to pass sufficient signaling information so that all of the  
24 services possible with today's technology can be offered to all customers.

25

1 Q. WHAT DO YOU MEAN BY ALLOWING INTERCONNECTION AT ANY  
2 FEASIBLE POINT OF INTERCONNECTION?

3

4 A. Based on the arrangements already in use today, interconnection clearly can occur at  
5 a number of points. Interexchange carriers interconnect with local exchange carriers  
6 either at their own Points of Presence, or, thanks to recent Federal regulatory  
7 changes, at the switch of a local exchange provider. The incumbent local exchange  
8 providers often interconnect with each other at a "meet point," which is just a  
9 division of ownership of a trunk connecting two switches owned by different  
10 companies. The "meet point" is usually the boundary between two adjacent  
11 exchanges.

12 All of these are feasible points of interconnection between Sprint/GTEFL and  
13 competitive local exchange entrants. The point of interconnection for a trunk  
14 connecting the networks could be at either end -- at the switch of either the entrant  
15 or Sprint/GTEFL -- or it could be in the middle, defining a "meet point" between the  
16 two networks. The entrant should get to select which of these it wishes, as its choice  
17 will be dictated solely by the desire to minimize costs. That choice should allow the  
18 entrant to select only one point of interconnection per local calling area.

19

20 Q. WHY WOULD THE ENTRANT, BUT NOT SPRINT/GTEFL, WANT TO  
21 MINIMIZE COSTS?

22

23 A. In order to attract customers, an entrant must offer either lower prices or improved  
24 services over what customers can get from Sprint/GTEFL. In order to do either of  
25 these, the entrant needs to keep its costs as low as possible. Moreover, an entrant

1 will be likely initially to have a higher percentage of its traffic going to  
2 Sprint/GTEFL's network than the percentage of its total local traffic Sprint/GTEFL  
3 has that will terminate on the network of the entrant, although the actual quantities  
4 should be in balance. Thus, interconnection costs will be a higher percentage of its  
5 costs of providing local calling. This increases the incentive of the entrant to keep  
6 those costs as low as possible.

7 Sprint/GTEFL, on the other hand, can use interconnection costs as one of a  
8 number of opportunities to try to handicap the entrant, by making the entrant's costs  
9 higher than Sprint/GTEFL's, thus blocking or impeding entry. One way to do this  
10 is to insist upon unnecessarily costly methods of interconnection. Thus, allowing the  
11 entrant to select which of the points of interconnection it wants to use is the method  
12 most likely to minimize these costs.

13

14 Q. SHOULD SPRINT/GTEFL BE ALLOWED TO REQUIRE COLOCATION IF THE  
15 ENTRANT WANTS TO PROVIDE SOME OF THE TRUNKS USED FOR  
16 INTERCONNECTION?

17

18 A. No. The Commission should require Sprint/GTEFL to allow entrants to specify a  
19 "meet point" as an additional option. Only if the entrant is allowed to specify that  
20 it wants a meet point can it have the actual trunks that provide interconnection  
21 supplied only at direct economic cost. If it has this right, it may be able to negotiate  
22 with Sprint/GTEFL for other configurations that also result in the payment only of  
23 direct economic cost. If it does not have this right, it has no bargaining power, and  
24 Sprint/GTEFL can force it to pay more for interconnections than Sprint/GTEFL pays,  
25 adding to the anticompetitive nature of the proposed interconnection arrangements.

1

2 Q. WHAT DO YOU MEAN BY THE USE OF THE MOST EFFICIENT TRUNKS?

3

4 A. Trunks can be either one-way trunks or two-way trunks. The former carry traffic in  
5 only one direction, the latter in both. Often, two-way trunks are more efficient, as  
6 they allow more traffic to be carried on a given number of circuits. Each entrant  
7 should be allowed to select the form of trunking that is most efficient for it, including  
8 being able to put both local exchange and intraLATA traffic on the same trunks, in  
9 order to minimize costs.

10

11 4. What Are the Appropriate Arrangements for the Delivery of Calls  
12 Originated by and/or Terminated to ALEC an From Other Carriers  
13 That Are Not Directly Connected to the ALEC?

14

15 Q. WHAT ARE THE APPROPRIATE ARRANGEMENTS FOR THE DELIVERY OF  
16 CALLS ORIGINATED BY AND/OR TERMINATED TO AN ALEC FROM  
17 OTHER CARRIERS THAT ARE NOT DIRECTLY CONNECTED TO THE  
18 ALEC?

19

20 A. The answer depends on what kind of traffic is involved. If the traffic is local traffic,  
21 Sprint/GTEFL should charge only the direct economic costs (TSLRIC) of the transit  
22 function. Further, Sprint and GTEFL should be required to handle toll transit traffic  
23 exactly as they do for independent local exchange carriers.

24

25 Sprint/GTEFL should be required to do this because they hold a monopoly  
over the transit function. Because of their status as former monopoly companies, all

1 carriers are connected to Sprint/GTEFL. Sprint/GTEFL should not be allowed to  
2 refuse to serve as the transit carrier, given that this would be the most efficient way  
3 to get the traffic to its destination. Nor should they be allowed to use their position  
4 to force entrants to pay a discriminatory price for this service.  
5

6 Q. DOES THIS CONCLUDE YOUR TESTIMONY?  
7

8 A. Yes.  
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1 Q. PLEASE STATE YOUR NAME AND ADDRESS.

2

3 A. My name is Nina W. Cornell. My address is 1290 Wood River Road, Meeteetse,  
4 Wyoming 82433.

5

6 Q. PLEASE DESCRIBE YOUR EDUCATIONAL AND PROFESSIONAL  
7 BACKGROUND AND EXPERIENCE.

8

9 A. I am an economist in private practice, specializing in microeconomic analysis of  
10 regulatory and antitrust issues. Until late 1988, I was with the firm of Cornell,  
11 Pelcovits & Brenner Economists Inc., of which I was president.

12 Before entering private practice, I was Chief of the Office of Plans and  
13 Policy, Federal Communications Commission (FCC). As Chief of the Office of  
14 Plans and Policy, I served as chief economist to the Commission and participated in  
15 virtually all FCC agenda meetings.

16 Prior to being associated with the FCC, I was the Senior Staff Economist for  
17 regulatory, transportation, environmental, and health and safety issues for the Council  
18 of Economic Advisers (CEA). In this position I reported directly to Charles L.  
19 Schultze, Chairman of the Council.

20 Prior to being with the CEA, I was employed as an economist with the  
21 Council on Wage and Price Stability, where I served on the Task Force on Reform  
22 of Federal Energy Administration Regulations. Before joining the Federal  
23 Government, I spent four years at the Brookings Institution as a Research Associate.

24 I am a graduate of Swarthmore College, and received my Ph.D. in Economics from  
25 the University of Illinois in 1972.

REPORTER'S NOTE: PAGES 2 THROUGH 37 REMOVED AT REQUEST OF COUNSEL.

1 ~~tandem switching and transport functions for local traffic was set equal to the direct~~  
 2 economic costs (TSLRIC) of providing those functions, rather than set at Sprint's  
 3 switched access charge rates. Further, Sprint should be required to handle toll transit  
 4 traffic exactly as it does for independent local exchange carriers.

5 Sprint should be required to do this because it holds a monopoly over the  
 6 transit function. Because of its status as the former monopoly company, all carriers  
 7 are connected to Sprint. Sprint should not be allowed to refuse to serve as the transit  
 8 carrier, given that this would be the most efficient way to get the traffic to its  
 9 destination. Nor should it be allowed to use its position to force entrants to pay a  
 10 discriminatory price for this service.

11

12 5. What is the Appropriate Rate for Unbundled Local Loops?

13

14 Q. MR. POAG STATES THAT SPRINT WILL OFFER UNBUNDLED LOCAL  
 15 LOOPS AT THE PRICE SET FORTH IN SPRINT'S SPECIAL ACCESS TARIFFS.  
 16 (POAG DIRECT AT PAGE 32) ASSUMING THAT THE ISSUE OF THE PRICE  
 17 FOR UNBUNDLED LOCAL LOOPS IS PROPERLY BEFORE THE  
 18 COMMISSION IN THIS DOCKET, IS THE PRICE PROPOSED BY MR. POAG  
 19 APPROPRIATE?

20

21 A. No. The price for unbundled local loops (and loop concentration and loop transport,  
 22 which are not mentioned in Mr. Poag's testimony but should be offered as part of the  
 23 initial set of unbundled elements) should be set at direct economic cost (TSLRIC).  
 24 Any other level of price above cost would have no ability to permit Sprint to pass an  
 25 imputation test, enabling Sprint to create a price squeeze. As discussed earlier, a

1 price squeeze exists whenever a firm that supplies essential inputs to a competitor  
2 recovers less in its end user rates for those essential inputs than it charges its  
3 competitors. Given the flat rates charged for local exchange service, and particularly  
4 residential local exchange service, a price for loops that was greater than TSLRIC  
5 would create a price squeeze for entrants.

6  
7 6. Miscellaneous Issues.

8  
9 Q. MR. POAG STATES THAT SPRINT WILL ALLOW CONNECTIONS BETWEEN  
10 ALECS THROUGH ITS TARIFFED COLOCATION FACILITIES WITHOUT  
11 BEING ROUTED THROUGH THE TANDEM, BUT THAT SPRINT WILL NOT  
12 PERMIT ALECS TO DIRECTLY CONNECT TO EACH OTHER ACROSS  
13 SPRINT'S FLOOR SPACE WITHOUT GOING THROUGH SPRINT'S  
14 COLOCATION FACILITIES. (POAG DIRECT AT PAGE 35) IS THIS AN  
15 APPROPRIATE RESTRICTION?

16  
17 A. The only restriction that Sprint should be permitted to impose is a requirement that  
18 ALECs desiring direct ALEC-to-ALEC interconnection be colocated at the same  
19 Sprint central office and/or tandem. Permitting Sprint to impose other restrictions  
20 would simply permit it to impose additional costs on its competitors. For a direct  
21 ALEC-to-ALEC interconnection between colocation facilities, Sprint should be  
22 permitted to charge a rate equal to its direct economic cost (which includes a return  
23 on investment) of furnishing the in-house cabling used to accomplish the connection.  
24 All other costs incurred by Sprint are already covered in its colocation charges.

25

1 Q. DOES THIS CONCLUDE YOUR TESTIMONY?

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3 A. Yes.

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1 Q. WHAT IS YOUR NAME AND ADDRESS?

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3 A. My name is Nina W. Cornell. My address is 1290 Wood River Road, Meeteetse,  
4 Wyoming 82433.

5

6 Q. WHAT IS THE PURPOSE OF YOUR REBUTTAL TESTIMONY?

7

8 A. My rebuttal testimony responds to the testimonies of Dr. Beauvais on behalf of GTE  
9 Florida Incorporated (GTEFL) and Mr. Poag on behalf of Sprint-United/Centel.

10

11 Q. WHAT DOES DR. BEAUVAIS RECOMMEND THE COMMISSION DO ABOUT  
12 INTERCONNECTION IN THE SHORT RUN?

13

14 A. Dr. Beauvais wants the Commission to order the use of switched access charges  
15 without the application of the Carrier Common Line Charge or the Residual  
16 Interconnection Charge as the rate to use for compensation for terminating local  
17 exchange traffic.

18

19 Q. DO YOU AGREE WITH THAT RECOMMENDATION?

20

21 A. No. The rates Dr. Beauvais wants to use are far above cost, and would create a  
22 barrier to entry. This would slow or prevent the development of local exchange  
23 competition. The Commission should order Mutual Traffic Exchange, as I discussed  
24 in my direct testimony.

25

1 Q. WHY WOULD USE OF SWITCHED ACCESS CHARGES, BUT WITHOUT THE  
2 CARRIER COMMON LINE CHARGE AND THE RESIDUAL  
3 INTERCONNECTION CHARGE, CREATE A BARRIER TO ENTRY?  
4

5 A. Any rate charged for terminating calls that is higher than the total service long run  
6 incremental cost per unit of providing that service would create a barrier to entry.

7 As I noted in my direct testimony (page 5, lines 13-14), any time an entrant  
8 faces costs that are higher than the costs faced by the incumbent for an input, it  
9 creates a barrier to entry. The charge that Dr. Beauvais wants to impose for  
10 terminating local exchange traffic is a cost that the entrant cannot avoid. If Dr.  
11 Beauvais' recommendation were adopted, the cost to an entrant to terminate a call to  
12 a customer of GTEFL would be equal to the switched access charge minus the  
13 Carrier Common Line Charge and the Residual Interconnection Charge, but the cost  
14 to GTEFL to terminate the same call would only be the unit TSLRIC of termination.  
15 When the cost of an input that an entrant can get nowhere but from GTEFL is higher  
16 to the new entrant than to GTEFL, the result is an artificial barrier to entry.  
17

18 Q. DR. BEAUVAIS SAYS THAT IT IS INCONSISTENT TO ARGUE THAT HIGH  
19 INTERCONNECTION CHARGES ARE A BARRIER TO ENTRY AND AT THE  
20 SAME TIME ARGUE THAT TRAFFIC IS LIKELY TO BE IN BALANCE. DO  
21 YOU AGREE?  
22

23 A. No. The claim that traffic will be in balance is a statement about what conditions are  
24 likely to be over some period of time. That period is likely to be longer than a  
25 normal telephone company billing period of a month. Moreover, the market

1 conditions for traffic balance to be more certain, namely true service provider number  
2 portability, have not yet been put into place. Under these conditions, even if traffic  
3 is in balance over a year, for example, the inability to predict with certainty for any  
4 given month means that the entrant will have to ensure that it has sufficient cash flow  
5 each month to meet the bill of the incumbent. Even if traffic is in balance in terms  
6 of the number of minutes of use, because the *percentage* of calls originated on the  
7 network of the entrant that terminate on the network of the incumbent is likely to be  
8 much higher than is the percentage of calls that originate on the network of the  
9 incumbent and terminate on the network of the entrant, the need to ensure a sufficient  
10 cash flow to be able to pay whatever might be the monthly bill for local termination  
11 will fall much more heavily on the entrant than on the incumbent. The only way the  
12 entrant can ensure it has sufficient cash flow to meet these bills each month is if the  
13 entrant recovers the possible interconnection charge in the rates it charges for local  
14 calling.

15

16 Q. DR. BEAUVAIS ALSO CLAIMS THAT THE COST OF MEASUREMENT AND  
17 BILLING IS VERY LOW, AND THAT ENTRANTS MUST CREATE BILLING  
18 SYSTEMS FOR SWITCHED ACCESS IN ANY EVENT. THUS, HE CLAIMS  
19 THERE ARE NO REAL SAVINGS IN TRANSACTIONS COSTS IF MUTUAL  
20 TRAFFIC EXCHANGE IS THE METHOD OF COMPENSATION. DO YOU  
21 AGREE?

22

23 A. No. Dr. Beauvais has relied on data for measurement and billing costs that do not  
24 apply to the measurement and billing for the method of interconnection he proposes  
25 to use. Moreover, in order to make his proposed system work, he proposes to

1 require entrants to use separate trunks to bring local exchange traffic to GTEFL, and  
2 he proposes also to audit the traffic that is on those trunks to ensure that the entrants  
3 are not cheating. All of these proposals add costs to entrants disproportionately to  
4 the costs imposed on GTEFL, creating additional barriers to entry. The costs Dr.  
5 Beauvais would add are unnecessary.

6 The fact that the entrants have to create switched access measurement and  
7 billing systems is not relevant to the costs that would be incurred to create  
8 measurement and billing systems for local exchange traffic.

9  
10 Q. WHAT IS THE PROBLEM WITH THE DATA DR. BEAUVAIS HAS USED TO  
11 CLAIM THAT THE COSTS OF MEASUREMENT AND BILLING ARE LOW?

12  
13 A. Dr. Beauvais used cost figures for measured local exchange traffic to claim that the  
14 costs of measurement and billing are low. The problem is that a call terminated for  
15 an entrant is not the same as a measured local exchange call, contrary to Dr.  
16 Beauvais' claim. Measured local exchange service has the originating switch measure  
17 and record the information needed to bill measured local exchange calls. For a local  
18 termination of a call that originates on another network, the incumbent local exchange  
19 carriers will not be the originating switch. Instead, they will be the terminating  
20 switch. As a result, the measurement and billing will not use the same measurement  
21 equipment or billing systems as measured local exchange service.

22 Given Dr. Beauvais' proposal to use switched access charges, it is likely that  
23 GTEFL will use its switched access billing system. In the cases where I have seen  
24 data on those costs, the measurement and billing costs for a switched access call are  
25 much higher than for a measured local service call.

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Q. WHAT ARE THE ADDITIONAL COSTS THAT DR. BEAUVAIS WOULD IMPOSE ON ENTRANTS IN ORDER TO IMPLEMENT HIS COMPENSATION PROPOSAL?

A. Dr. Beauvais would impose additional costs by requiring entrants to use separate trunks for local and EAS traffic, rather than being able to terminate both local/EAS and toll traffic over the same trunks.

Today, when an incumbent local exchange carrier terminates a call other than a switched access call, its terminating switch cannot determine whether that call is local or toll. The terminating switch can count the minutes that the trunk is in use, but except for switched access that comes on separate trunks either from the incumbent's tandem or from the interexchange carrier directly, it does not record this information for billing purposes. In order to get around the inability to determine whether calls coming from an entrant are toll or local, Dr. Beauvais would require the entrants to use inefficient trunking in order to help implement his already inefficient compensation proposal. Dr. Beauvais would impose on entrants additional costs due to his requirement that they use separate trunks for different kinds of calls. This would reduce the economies of trunking that would be available to entrants, and increase their costs.

Q. WHY IS IT IRRELEVANT THAT THE ENTRANTS WILL HAVE TO CONSTRUCT MEASUREMENT AND BILLING SYSTEMS FOR SWITCHED ACCESS?

1 A. It is irrelevant that entrants would have to construct measurement and billing systems  
2 for switched access charges because that traffic is not the same as local exchange  
3 termination. Technically, the specifications of the trunks used for switched access  
4 are different, meaning that switched access traffic will go over segregated trunks.  
5 These can be measured in the same way that the incumbents do today. Terminating  
6 local calls would not use the kind of trunks that carry switched access calls.

7  
8 Q. DR. BEAUVAIS ALSO DISAGREES THAT USE OF SWITCHED ACCESS  
9 CHARGES WOULD CREATE A PRICE SQUEEZE. DID HE CORRECTLY  
10 ADDRESS THIS ISSUE?

11  
12 A. No. A price squeeze exists whenever an equally efficient firm cannot provide an end  
13 user service at the same rate as the incumbent due to the price the incumbent charges  
14 the competitor for an essential input. To prove that his compensation proposal would  
15 not create a price squeeze, Dr. Beauvais would have had to show that each of  
16 GTEFL's local exchange services recovered revenue equal to or greater than the sum  
17 of the price he proposes GTEFL charge for local terminations plus all of the costs  
18 of the remainder of the inputs into that particular GTEFL local exchange service.  
19 He has not made such a showing.

20 Instead, Dr. Beauvais discusses the prices MFS can choose to charge.  
21 According to Dr. Beauvais:

22 If MFS cares to offer customers measured options, it  
23 is at liberty to establish the prices for its services at  
24 whatever levels it chooses. Likewise, if MFS wants  
25 to offer customers flat-rated local exchange service, it

1 is free to do so. The price of such service only needs  
2 to be at a level sufficiently high to cover MFS' costs  
3 of providing service. (Beauvais Direct, page 32, line  
4 25, to page 33, line 5)

5  
6 Nowhere in this passage does Dr. Beauvais recognize two central facts: (1) MFS  
7 cannot set its rates for local exchange service at "whatever level it chooses" without  
8 regard to the rates GTEFL charges for local exchange service; and (2) a major part  
9 of MFS' costs for providing local exchange service are directly under the control of  
10 GTEFL, and will be determined by what GTEFL is allowed to establish as the price  
11 for local call termination.

12  
13 Q. WHAT IS THE RELATIONSHIP BETWEEN THE PRICES MFS CAN CHARGE  
14 FOR LOCAL EXCHANGE SERVICE AND GTEFL'S PRICES FOR LOCAL  
15 EXCHANGE SERVICE?

16  
17 A. Except for any premium for superior quality that it might be able to charge,  
18 GTEFL's prices set the price ceiling for what any entrant can charge if it hopes to  
19 win customers. No matter what P. T. Barnum may have once said about people,  
20 they do not long agree to switch to new and relatively untried local exchange carriers  
21 for the privilege of paying more for their local exchange service. In fact, it is likely  
22 that entrants will have to charge less than the incumbent for service of equal quality  
23 in order to induce customers to switch. Thus, MFS is not free to set its prices at any  
24 level. If GTEFL succeeds in persuading the Commission to allow it to set  
25 compensation for terminating calls at a level that creates a price squeeze, MFS may

1 not have any level of local exchange price below the price ceiling set by GTEFL that  
2 also allows MFS to cover its costs.

3

4 Q. YOU SAID THAT GTEFL IS CONTROLLING A COST OF THE ENTRANTS BY  
5 THE LEVEL AT WHICH IT IS ALLOWED TO SET COMPENSATION RATES  
6 FOR TERMINATING LOCAL CALLS. DR. BEAUVAIS SAYS THAT GTEFL  
7 IS NOT REQUIRED TO MAKE ENTRANTS "FINANCIALLY VIABLE."  
8 (BEAUVAIS DIRECT, PAGE 33, LINES 20-21) HE ALSO SAYS "THAT THE  
9 PRICE FOR COMPENSATION IS, AFTER ALL, JUST ANOTHER PRICE."  
10 (BEAUVAIS DIRECT, PAGE 34, LINES 22-23) DO YOU AGREE?

11

12 A. Not entirely. I agree that GTEFL is not required to make entrants financially viable,  
13 but it is not permissible that it be allowed to erect artificial barriers to entry either.  
14 What Dr. Beauvais has done is to ignore that interconnection is one of a small  
15 number of essential monopoly input functions that entrants can only get from the  
16 incumbent local exchange company. This makes local exchange markets not like  
17 normal markets. Dr. Beauvais is actually asking the Commission to allow GTEFL  
18 to take advantage of this almost unique circumstance -- the control over essential  
19 monopoly input functions -- to create an artificial barrier to entry that it could not in  
20 a normal market, namely the barrier to entry created by making entrants incur higher  
21 costs for traffic termination than GTEFL experiences.

22

23 Q. WHAT DO YOU MEAN BY A "NORMAL MARKET?"

24

1 A. Normal markets generally are markets with essentially no barriers to entry, and in  
2 which no firm controls essential monopoly input functions. Such markets would tend  
3 over time to be effectively competitive. In such markets, with no one firm being able  
4 to control the destiny of another firm directly, each firm has to compete  
5 independently and this causes prices to fall as close as possible to cost.

6  
7 Q. DR. BEAUVAIS ALSO PROPOSES THAT, IN THE LONGER RUN, THE  
8 COMMISSION MOVE TOWARDS HIS PROPOSED ORIGINATING  
9 RESPONSIBILITY PLAN, WHICH HE CLAIMS WOULD BE MORE  
10 EFFICIENT. DO YOU AGREE?

11  
12 A. No. Dr. Beauvais' proposal is a plan designed to insure it a monopoly, not to create  
13 an efficient local exchange market. First, he erroneously claims that a number of  
14 kinds of calls are the same, when they are not. This would lead to prices for local  
15 call termination that included a higher markup over cost than would be contained in  
16 the prices for end to end local calls.

17 He also wants to price all usage on a declining block basis, a proposal that  
18 has two very powerful anticompetitive effects. The first is that such a tariff  
19 guarantees that no matter what the rate, the tariff will not be able to pass the proper  
20 imputation test. As a result, entrants will always face a price squeeze. The second  
21 very powerful anticompetitive effect is that a declining block pricing structure that  
22 aggregates the usage over more than one line forces consumers to pay a huge  
23 financial penalty if they want to split their usage between two or more carriers. This  
24 raises the difficulty an entrant has in getting customers to try its service. The  
25 entering interexchange carriers began by taking some, but not all, of the

1 interexchange traffic of large users. Local exchange entrants would be denied this  
2 ability under Dr. Beauvais' proposal. The Commission should reject in its entirety  
3 Dr. Beauvais' request that it endorse now the ultimate adoption of Dr. Beauvais'  
4 longer run proposal.

5

6 Q. MR. POAG CLAIMS THAT INCREMENTAL COSTING METHODS ARE NOT  
7 USED FOR SETTING PRICES, BUT ONLY FOR TESTING FOR CROSS  
8 SUBSIDIES. DO YOU AGREE?

9

10 A. No. Indeed, in every docket in which I have been involved around the country since  
11 1981, local exchange carriers have been asking to set their rates, particularly their  
12 rates for services subject to competition, on the basis of incremental costs.

13

14 Q. MR. POAG CLAIMS THAT IT IS "INAPPROPRIATE" FOR THE  
15 INTERCONNECTION RATE OF A LOWER COST COMPANY TO BE SET  
16 EQUAL TO THE INTERCONNECTION RATE OF A HIGHER COST  
17 COMPANY. DO YOU AGREE WITH MR. POAG'S ANALYSIS?

18

19 A. No. Mr. Poag is addressing a belief that in the real world costs between two  
20 interconnectors will not be the same. According to Mr. Poag:

21

When this occurs and prices are set at the higher

22

incremental cost of the two interconnectors, the

23

competitor having the higher cost will have no

24

recovery of its shared and overhead costs while the

25

competing interconnector will recover more than its

1 incremental cost and thus receive a contribution  
2 toward its shared and common costs. For the higher  
3 cost company, its shared and common costs, if  
4 recovered, will have to be recovered, in part, through  
5 charges to its end users. The problem is compounded  
6 when the higher-cost company is also terminating  
7 more traffic from the ALEC than it terminates to the  
8 ALEC. (Poag Direct, page 9, line 21, to page 10,  
9 line 7)

10

11 There are at least three problems with Mr. Poag's argument. Moreover, it  
12 is ironic that the outcome that Mr. Poag appears to want, namely different costs to  
13 the two companies for terminating calls if their costs differ, would occur under the  
14 one termination arrangement he rejects, namely Mutual Traffic Exchange.

15

16 **Q. WHAT IS THE FIRST PROBLEM WITH MR. POAG'S ARGUMENT?**

17

18 **A.** Mr. Poag demonstrates a lack of understanding of how markets work. In normal  
19 markets, the market price is set at the cost of supplying the last unit demanded. If  
20 one firm is more efficient than another firm in that market, it receives higher  
21 markups over its costs at that market price than the higher cost firm receives. There  
22 is no mechanism in a competitive market to ensure that the higher cost firm can  
23 continue to be higher cost and still recover all of its costs. One of the major benefits  
24 to consumers from competitive markets is that when the situation described by Mr.

1 Poag arises, the higher cost firm is forced to become more efficient -- to become a  
2 lower cost firm. Mr. Poag wants to prevent consumers from getting this benefit.

3

4 Q. WHAT IS THE SECOND PROBLEM WITH MR. POAG'S ARGUMENT?

5

6 A. The second problem with Mr. Poag's argument is that he assumes that it is proper  
7 for the incumbent local exchange company to charge a rate for interconnection that  
8 helps to recover some of its shared and common costs. In fact, the most efficient  
9 way to structure the market is to require all interconnectors to recover their shared  
10 and common costs from end users, not from each other. The reason for this is  
11 precisely to force higher cost firms to become lower cost firms. Any markup in the  
12 interconnection charge cannot be competed away, so it is protected, whereas markups  
13 in end user rates are subject to market pressures for greater efficiency.

14

15 Q. WHAT IS THE THIRD PROBLEM WITH MR. POAG'S ARGUMENT?

16

17 A. Mr. Poag is simply wrong that it makes things worse if the higher cost company  
18 terminates more calls than the lower cost company. The amount of shared and  
19 common costs that a company has to recover is unaffected by the volume of calls that  
20 it terminates for the other company.

21

22 Q. MR. POAG CLAIMS THAT IT IS TOTALLY "ILLOGICAL" TO CLAIM THAT  
23 CHARGING FOR INTERCONNECTION AT A RATE THAT IS HIGHER THAN  
24 COST SHIELDS THE COSTS RECOVERED FROM THE MARKUP FROM  
25 MARKET PRESSURES. IS HE CORRECT?

1

2 A. No. Mr. Poag genuinely does not understand what market pressure means. The  
3 price for interconnection cannot be pushed down by market forces because there is  
4 no alternative for terminating traffic to subscribers who remain with the incumbent  
5 other than use of the incumbent's local termination. What this means is that, even  
6 if in fact the incumbent became more efficient, no market force exists to force the  
7 incumbent to reflect that greater efficiency in a lower interconnection charge.  
8 Therefore that efficiency also would not be reflected in the end user prices charged  
9 by the entrant, which in turn protects the end user prices that the incumbent will  
10 charge in the future. The fact that the incumbent might become more efficient in a  
11 cost-cutting sense is of virtually no benefit to consumers unless they get the benefits  
12 in lower prices.

13

14 Q. MR. POAG ALSO CLAIMS THAT A PRICE SQUEEZE IS MEASURED ONLY  
15 BY LOOKING AT TOTAL COSTS TO THE NEW ENTRANT RELATIVE TO  
16 TOTAL REVENUES, TAKING ALL SERVICES INTO ACCOUNT. IS HE  
17 CORRECT?

18

19 A. No. He has misunderstood what a price squeeze is and why it matters. The question  
20 is not whether some particular entrant, having surmounted all the natural barriers to  
21 entry and the artificial barriers created by Mr. Poag's interconnection pricing  
22 proposal, actually is profitable. A price squeeze is bad for the public because it  
23 prevents a firm that is just as efficient as the incumbent from entering and surviving  
24 in the market. A price squeeze exists if the incumbent's rate for an end user service  
25 for which the incumbent supplies an essential monopoly input function is set higher

1           than the sum of the rate charged for that essential monopoly input function plus the  
2           cost of all of the other inputs used by the incumbent to provide the end user service.

3

4    Q.    DOES THIS CONCLUDE YOUR REBUTTAL TESTIMONY?

5

6    A.    Yes.

7           (Transcript follows in sequence in Volume 8.)

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