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BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION

In the Matter of
:
:
:
Petitions by AT&T Communications :
of the Southern States, Inc., :
MCI Telecommunications :
Corporation and MCI Metro Access :
Transmission Services, Inc., :
for arbitration of certain terms :
and conditions of a proposed :
agreement with GTE Florida :
Incorporated concerning :
interconnection and resale under :
the Telecommunications Act of :
1966. :

DOCKET NO. 960847-TP
DOCKET NO. 960890-TP



SECOND DAY - MID-MORNING SESSION

VOLUME 8

Pages 888 through 1012

PROCEEDINGS: HEARING

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

DATE: Tuesday, October 15, 1996

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

REPORTED BY: ROWENA NASH HACKNEY
H. RUTHE POTAMI, CSR, RPR
Official Commission Reporters

APPEARANCES:
(As heretofore noted.)

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P R O C E E D I N G S

1
2 (Transcript follows in sequence from
3 Volume 7.)

4 **DON PRICE**

5 having been called as a witness on behalf of MCI
6 Telecommunications Corporation and MCI Metro and,
7 having been duly sworn, continue his testimony as
8 follows:

9 **CONTINUED CROSS EXAMINATION**

10 **BY MR. GILLMAN:**

11 Q Mr. Price, let's go to account No. 6623.
12 That's account that you assume 90%, correct.

13 A I believe that's correct, yes.

14 Q And I think -- I guess you were already
15 asked about the carrier access expenses. Those
16 expenses have not been removed, have they?

17 A No, because there's no accepted methodology
18 for performing that kind of assignment of costs below
19 the state separated numbers.

20 Q Do you know what percentage GTE Florida's
21 revenues for access compares to retail?

22 A No, I don't. We are not talking about
23 revenues though, we are talking about cost in my
24 calculation.

25 Q Those carrier access expenses would not go

1 away, would they, once GTE starts its wholesale
2 operations? Starts reselling services?

3 A No. But by virtue of my not having taken
4 that into account, there is a benefit because, as I
5 testified previously, the fact that we did not take
6 that into account means that the discount that I'm
7 proposing is lower than it would otherwise be.

8 Q You have not removed those expenses, have
9 you?

10 A No, I have not. And, again, that would be
11 nearest to GTE's benefit.

12 Q Have you also removed any costs related to
13 service ordering?

14 A Well, there's no specific category. I mean,
15 if you look at that line in DGP Exhibit 5, whatever
16 that amount is, we've included 90% of that in our
17 calculation. So there's no attempt to distinguish, if
18 you will, the various types of costs that are in that
19 account.

20 Q That was probably not a good question.
21 Service ordering costs are included within that
22 account; are they not?

23 A I believe that's correct, yes.

24 Q And GTE will still incur service ordering
25 costs even on a wholesale basis, won't it?

1 **A** Yes. Although as we've proposed, we think
2 those costs will be less than what they are today on
3 an end user basis.

4 **Q** So those costs will remain even after GTE
5 begins reselling, won't they?

6 **A** Some level of costs will remain, yes.

7 **Q** And those -- I mean, those aren't even
8 accounted within the 90%, right? The 10% difference
9 between 90 and 100, that's only for future expenses,
10 right?

11 **A** I don't understand your question.

12 **Q** Well, I thought you testified that the
13 reason the FCC presumed 90% was to take into account
14 new costs created by wholesale activities.

15 **A** No. I'm sorry if that's what I said.
16 Because what I meant to say and what I should have
17 said is that there's really two types of costs that
18 the FCC's Order would have reflected in that 90%. One
19 would be new costs, the other would be continuing
20 costs that are associated with wholesaling.

21 **Q** Does MCI, they presently have a national
22 account manager with GTE, do they not, to handle its
23 wholesale activities?

24 **A** I don't know specifically, but that
25 certainly wouldn't surprise me.

1 Q And they have a separated department, so to
2 speak, to just handle MCI; do they not?

3 A I'm sorry, I may not have understood your
4 question. Are you referring to GTE's structure or
5 MCI's structure?

6 Q GTE's structure, I'm sorry.

7 A I don't know if they have a whole separate
8 department. I know that there are personnel that
9 perform those types of functions.

10 Q Specifically for MCI?

11 A My recollection is that there are specific
12 personnel assigned to all of the major carriers.

13 Q And you would expect that same sort of
14 service when you purchase local services on a resale
15 basis; would you not?

16 A I'm having a little trouble making the leap
17 between the fact that there's a separate department
18 and the, quote, same level of service that you just
19 asked in your question.

20 Q Well, GTE provides and incurs costs to
21 provide wholesale services to MCI presently; does it
22 not?

23 A There are account management costs that GTE
24 incurs today with respect to MCI as an interexchange
25 carrier customer, yes.

1 Q And those costs were to be included in one
2 of these accounts, would they not?

3 A That's my understanding.

4 Q And these costs will increase, will they
5 not, to the extent that MCI purchases not only access
6 but also resale local service?

7 A I don't know.

8 Q Okay. Doesn't a wholesaler -- mustn't a
9 wholesaler continue to do a product development of its
10 services?

11 A Yes, I think so. I think the situation that
12 we are looking at here is a little bit different than
13 looking at GTE as just a wholesaler though.

14 Q Isn't that what the FCC's presumption was,
15 that everything should be looked at as if GTE was only
16 a wholesaler with no retail operations?

17 A I'm not sure that that's the case with
18 respect with to the calculation of the wholesale
19 discount. I mean, what I've testified in is that it
20 is appropriate to capture, in the calculation of the
21 discount, all of GTE's costs associated with
22 retailing. But that in itself is only one part or one
23 step in the process, because the next step is the
24 application of that amount. And that application is
25 only done to the services that are sold at wholesale.

1 So to the extent that GTE continues to incur
2 product development costs for its retail operations,
3 it will recover those costs the same way it always has
4 from its retail operation.

5 Q But doesn't GTE also incur product
6 development costs for wholesale services?

7 A If you are asking me, do I think GTE would
8 develop products solely in order to provide them to
9 MCI as its retail competitor. No, I don't believe
10 that at all.

11 Q Well, what you believe -- if such a product
12 was developed, a new wholesale product, there would be
13 a product development cost in doing so, wouldn't
14 there?

15 A Yes, if a new product for wholesale were
16 developed, there would be product development costs.

17 The problem that I'm having with your line
18 of questioning is that I envision that GTE will be
19 looking at product development as its -- in its role
20 as a retail provider to end users. It will be much
21 more focussed on that particular activity, especially
22 if we are to move towards a competitive market, than
23 it will be sitting around trying to think up new ways
24 to provide services to its competitors on a wholesale
25 basis.

1 Q Well, let's take that assumption. So GTE
2 comes up with a new service that it provides to its
3 retail customers. So in providing that service, would
4 it be fair to say that there would be a fair amount of
5 costs that would be incurred in developing or
6 inventing that product?

7 A I could agree that there could likely be
8 some costs. Whether it would be a, quote, fair amount
9 of costs, whether it would be marginally different
10 from what has been incurred in the past, I don't know.

11 Q There would be costs incurred; would there
12 not?

13 A Yes.

14 Q And there would be costs incurred in
15 training the staff to support that new service and
16 changing the tariffs and doing whatever else it needs
17 to develop that service. Would you agree with that?

18 A Yes. Again, I don't know how that would
19 differ. I have no basis to know that that would
20 differ significantly from what's been incurred in the
21 past.

22 Q And if MCI purchased that service for
23 resale, it would not be required -- or there would be
24 no need to duplicate all of those product development
25 expenses, would there?

1 A In a purely resale environment, I guess the
2 answer would be no.

3 Q And by the same token, those product
4 development costs would not be avoided in that
5 situation, would it?

6 A I'm not sure that I can make that connection
7 between this question and the prior question.

8 Q So you don't understand the question?

9 A I thought your previous question was would
10 there be a need for the wholesaler to incur costs.
11 And I said in a purely resale environment, I guess
12 not. And then your next question was whether or not
13 those costs would be avoided. And I thought we were
14 talking about MCI's costs or the costs of one of your
15 retail competitors.

16 Q Those costs for product development would
17 not be avoided, would they? GTE would have to incur
18 those product development costs to provide it on a
19 retail or wholesale basis?

20 A Well, have to? No. It would not have to at
21 all. It could incur whatever costs it chose to incur
22 in its role as a retail provider.

23 Q All right, I apologize. Assuming -- and
24 you've agreed with me that those costs would be
25 incurred as for product development. Assuming that

1 costs are incurred to develop a new product, those
2 costs would not be avoided whether sold to a retail or
3 to a wholesaler or wholesale purchaser?

4 A I can agree with that, again with the caveat
5 that I don't know anything about the ongoing level and
6 how that compares to historic levels of cost that
7 would be booked to that account.

8 Q MCI recommends that carrier specific
9 branding be opposed; is that correct?

10 A Could you repeat the question?

11 Q Isn't MCI requesting GTE to provide MCI
12 specific branding?

13 A Yes.

14 Q And there would be an expense to providing
15 such branding?

16 A Yes.

17 Q And this would be an added expense created
18 by wholesale?

19 A Some expense, yes.

20 Q What account would that go into?

21 A There are a couple of different aspects to
22 branding as MCI has proposed it in this proceeding.
23 One of which would involve branding of operator
24 services and directory assistance calls. So I would
25 assume that the costs associated with that aspect of

1 our proposal would probably wind up in account 6621
2 for call completion services with respect to branding
3 associated with such things as contacts with the
4 repair center or customer contact where a service, a
5 truck, GTE rolls a truck to one of the MCI customers
6 premises. Those types of account weren't taken into
7 account at all in our calculation.

8 Q Okay. Now, you are proposing -- or are you,
9 or is that AT&T -- to avoid 100% of GTE's operator and
10 directory assistance costs?

11 A Well, I'd say it this way. We took into
12 account 100% of the cost associated with call
13 completion and number services in the calculation of
14 our discount. That is slightly different than the,
15 quote, retailing costs that I've otherwise taken into
16 account. The point being here that there will be a
17 separate revenue stream to GTE associated with that if
18 it's provided to MCI. And if MCI takes its own
19 operator services or directory assistance, then it
20 would not be appropriate for us to pay you for those
21 costs when we are incurring the same costs ourselves
22 to provide similar services.

23 Q And there are separate rates for operator
24 services and directory assistance; are there not?

25 A Are you asking me about GTE's tariffs?

1 Q Yes, I'm sorry. I'm asking about GTE.

2 A In some instances yes, and other instances
3 no. I mean, I don't know that you charge, for
4 example, when a local customer picks up and says "I'm
5 having trouble dialing a local number, can you
6 complete that for me." I just don't know if that's a
7 separate charge for GTE in Florida.

8 Q There are charges for these two services;
9 are there not?

10 A Well, I can agree that GTE is compensated
11 for that somehow through its rate structure. I just
12 don't know the extent to which there are separate
13 charges expressly for those functions.

14 Q You don't know one way or the other?

15 A Right.

16 Q Is it MCI's position that GTE should be
17 required to resell promotional -- or discount
18 promotional rates even if the promotion is less than
19 three months?

20 A The 90-day period is probably an appropriate
21 cut off for whether or not GTE is required to provide
22 promotional services on a resale basis.

23 Q Is it MCI's position that GTE must offer all
24 contract services at the same discount?

25 A Yes.

1 Q Would this apply also to competitive bidding
2 sort of situations where, say, for example, GTE
3 provides a competitive bid and MCI would be able to
4 provide a bid for the same service, just at a 17%
5 discount?

6 A I'm having a little difficulty because I
7 can't really envision a scenario where services would
8 be provided via contract, unless there were some
9 mechanism whereby GTE faced some competition for that
10 service.

11 So I guess what I'm saying is I can't
12 envision a contract in an other-than-competitive
13 scenario, unless the Commission just simply decides
14 that they don't like tariffs anymore, and you can
15 provide all your services via contract.

16 Q Well, what scenario are you -- when I ask
17 you about whether GTE should have to discount its
18 contract services, whether that was your position,
19 what sort of contract services do you have in mind?

20 A Whatever offerings you provide via contract,
21 as opposed to via tariff, those, in my view, are
22 telecommunication services. With the exception of
23 telecommunication services that are provided to
24 carrier customers, my understanding of the Act is that
25 GTE has the responsibility to make such services

1 available.

2 Q And might not there be a situation in the
3 future that GTE, MCI and AT&T will be going head to
4 head trying to get a customer for services provided
5 under contract?

6 A Might there be? Yes, I suppose there might
7 be.

8 Q And it's your position, is it not, that GTE
9 would make its bid and do -- incur whatever costs are
10 necessary in coming up with that service. And MCI
11 would be able to buy it from GTE, sell it to the
12 customer at a 17% discount?

13 A I hadn't really thought of that scenario.

14 Q It's true, isn't it?

15 A It's possible, I guess. The fact of the
16 matter is that because GTE will presumably have
17 recovered its retail costs associated with that
18 contract, then the costs of retailing are in there.
19 And as those costs are backed out appropriately, but
20 by virtue of the fact that they would no longer be
21 incurred --

22 Q Mr. Price, how did the retail cost recover,
23 we didn't get the contract?

24 A I'm sorry, I misunderstood your
25 hypothetical.

1 Q I guess I maybe didn't -- I'm assuming that
2 MCI is going to get the contract if they are able to
3 offer it at a 17% discount. GTE still provides the
4 service. All MCI is, is a middleman, and they get a
5 17% discount. Isn't that a likely scenario?

6 A I don't know how likely it is. As I said,
7 I'd never even thought of it until this morning.

8 Q You also contend, do you not, that GTE
9 should be required to resell even below cost services;
10 is that correct?

11 A Yes. As I stated earlier, my understanding
12 of the obligation that GTE has under the Act is,
13 unless it is a service that's provided to a carrier
14 it's obliged to provide that service at a price that's
15 reflects its cost associated with retailing. And the
16 exclusion -- I'm sorry, the exclusion of those costs.

17 Q In your opinion, would facilities-based
18 local competition be developed if ALECs can obtain
19 below cost services at even a further discount at
20 resale?

21 A Well, yes. As I've stated in my summary, I
22 think the future of facilities-based competition
23 hinges a great deal on the extent to which retail --
24 I'm sorry, resale is made available. And the fact is
25 that to the extent that the costs of retailing are

1 reflected in the avoided cost discount, then GTE is no
2 better and no worse off selling an above cost service
3 or a below cost service or any other service than it
4 would otherwise be because it will not incur the cost
5 of retailing in that scenario.

6 So it will have the same margin on any given
7 account, any given customer, whether it provides it as
8 a retailer or as a wholesaler. And you would be
9 indifferent.

10 Q Wouldn't you agree with me that there's very
11 little incentive for a competitor to build its own
12 facilities when it can buy it from GTE at not only a
13 below cost rate but a discounted below cost rate?

14 A Well, I think you've made a lot of
15 assumptions in that question. First of all, I'm not
16 convinced, based on the evidence that I've seen, that
17 GTE offers any particular services, quote, below cost
18 today. So, I mean, if I were to assume that that were
19 the case, then I think the next question that's raised
20 by your question is whether or not there would be,
21 quote, very little incentive to build facilities. No,
22 I can't agree with that. I think carriers will have
23 incentives to build facilities by virtue of the fact
24 that they will serve their customers and have control
25 of their customers over those facilities.

1 If there happens to be one particular
2 customer or account along a route that GTE serves,
3 quote, below cost, as you put it, that probably will
4 have very little, if any, impact on the planning of
5 your competitors that are already putting facilities
6 in the ground to provide services over those
7 facilities.

8 Q Is there a distinction in your mind between
9 a pathway and poles, ducts, conduits and right of
10 ways?

11 A Yes.

12 Q Would you agree with me that the word
13 "pathway" is more expansive than poles, ducts,
14 conduits and right of way?

15 A You may be surprised, but, yes, I would
16 agree with you.

17 Q And the word "pathway" is not used in the
18 Telecommunications Act, is it?

19 A I would have to go back and look at the
20 language in Section 224. I just don't recall.

21 Q Okay. Now, on Page 45 of your direct
22 testimony on this subject, Lines 17 to 19, you state
23 that the ILEC should be required to reserve poles,
24 conduits and right of ways for MCI's use for 90 days
25 after MCI makes the request?

1 A Yes.

2 Q And then MCI would have an additional six
3 months to put its facilities on there?

4 A Yes, that's true. If I could clarify, I
5 think in many instances that six-month period will be
6 a span that GTE would need in order to perform the
7 make-ready functions: tying up other lines on poles so
8 that those wouldn't be involved, possibly damaged as a
9 result of the new attachment or making ready conduit
10 or inner duct space.

11 So it's really a protection for GTE because
12 GTE will likely have other projects in the pipeline
13 that would prevent it from getting to MCI's project
14 immediately. So this is to give GTE an opportunity to
15 manage the various projects that it is engaging in so
16 it won't have to turn away from its own projects and
17 turn to MCI's requests immediately.

18 Q Is it your understanding that if another
19 ALEC came in during that nine-month period, that GTE
20 would not be permitted to provide that ALEC space if
21 no additional space existed?

22 A Essentially, a maximum of nine months. And
23 if I might clarify the process. We are talking at the
24 end of 90 days we are envisioning a process whereby we
25 would actually have some kind of a license agreement

1 or some contract, if you will, with GTE for the use of
2 specific facilities and a specific route. There would
3 likely already have been some money changing hands to
4 compensate GTE for at least a portion of the
5 make-ready work that it envisions necessary as a
6 result of this request. So as I say, there's already
7 a contract in place at the end of 90 days, and the
8 six-month period is simply to give GTE an opportunity
9 to do what's necessary to accomplish that make-ready
10 work.

11 If you've looked carefully at the MCI
12 contract, you'll see that if that's not done within
13 the six-month span, if we've not begun our work, then
14 the entire route would revert back, if you will, to
15 the pool of available assets for all carriers to
16 utilize.

17 Q Mr. Price, let's go to your rebuttal
18 testimony on Page 9.

19 A All right, sir.

20 Q And specifically, your response to the
21 question that appears on Page 4. And the question is:
22 What is your response to Mr. Bailey's claim at Page 9
23 of his testimony that defies logic to allow only the
24 electric utilities to deny access on grounds of
25 capacity, safety, reliability and generally applicable

1 engineering practices. And you gave an answer there.

2 My question is: Is it MCI's position that
3 GTE should not be permitted to deny access to its
4 poles, conduits or right of ways on the grounds of
5 capacity, safety, reliability and generally applicable
6 engineering practices?

7 A Yes. I thought that was the purpose of this
8 part of my rebuttal.

9 Q So GTE should not be concerned about the
10 safe and reliable provision of utility service in your
11 view?

12 A Well, actually, sir, I think all of us in
13 this industry should be concerned with those things.
14 I don't think that gives you a preferential right to
15 avoid your responsibility under the Act to make those
16 kinds of assets available to all telecommunications
17 carriers and any other carrier that may have a right
18 under the Act to use them.

19 Q Even if it creates safety concerns?

20 A Well, I suspect that you are aware of the
21 fact that MCI has a pretty good reputation worldwide
22 for providing telecommunications services. I cannot
23 think, as I sit here right now, the reason why MCI's
24 engineers would come to GTE with a request that would
25 create safety or reliability concerns either for us or

1 our customers or GTE or its customers.

2 Q I mean, maybe they wouldn't be aware of it
3 until GTE told them.

4 A Well, those kinds of things can be resolved,
5 I think, between the engineers. What I'm objecting to
6 is a blanket award of a right to GTE to unilaterally
7 make that kind of determination on its own behalf and
8 prevent us from having access to some of those
9 facilities.

10 Q On Page 5 of your rebuttal testimony, Lines
11 8 to 13, where you are state in the future all local
12 service providers should utilize a 1-800 number to
13 reach their respective repair centers and, you say, in
14 the Bell Atlantic service territories.

15 Are you aware that GTE is already utilizing
16 a 1-800 number for repair calls?

17 A No, I'm not, but if I could just clarify.
18 The point of this part of my testimony wasn't to say
19 that they should, but that that is one way of getting
20 around the dialing parody concern.

21 Q So it's not an issue with MCI and GTE any
22 longer, is it?

23 A If you are telling me that you are not using
24 611, I would accept that subject to check and agree
25 that that would certainly go a long ways toward

1 resolving that concern.

2 Q On Page 6 of your testimony regarding the
3 Bell Atlantic agreement, recent agreement, have you
4 read that agreement?

5 A Yes, I have.

6 Q And wasn't that agreement to test an AIN
7 solution to this problem?

8 A I don't recall the exact wordings. I
9 thought there was a bit stronger commitment than that.
10 I know that there's the similar commitment by
11 Southwestern Bell with AT&T in Texas.

12 Q Where they are trying to test this as a
13 solution; is that correct?

14 A Yes. And if I might just real quickly, any
15 new AIN capability that would be deployed would need
16 some testing. So it's not unique to this particular
17 scenario that we would be talking about a new AIN
18 application. Any such application would need to be
19 tested before it was fully deployed.

20 Q Sure, and standards developed. Would you
21 agree?

22 A No, I don't agree with that because AIN is
23 being provided today pursuant to standard. So the
24 creation of a new AIN application would not
25 necessarily require new standards.

1 Q Well, is AIN presently being used to provide
2 selective routing as you refer to in this question?

3 A Well, not to my knowledge. But again, that
4 doesn't mean that new standards must be developed for
5 that particular application.

6 Q Now, you find fault, as I understand, with
7 the fact that GTE's avoided cost study determines
8 prices on a nationwide basis; is that correct?

9 A Among other things, yes.

10 Q Does MCI have a nationwide retail operation?

11 A Well, MCI and its affiliates provide
12 services throughout the western hemisphere.

13 Q And it's done on a centralized basis; is it
14 not?

15 A Some functions are performed more centrally
16 than others, yes.

17 Q I mean, it's not unusual for a company to
18 realize economy of scales and having, say, a
19 nationwide retail operation, as opposed to a different
20 retail operation in each specific state?

21 A Well, I guess I'm not real sure what you
22 mean by retail operation. I mean, MCI has some things
23 that are performed more centrally than others. And I
24 would assume that that's the same -- the same is true
25 for most providers that operate on a regional or a

1 nationwide basis.

2 Q And you would agree with me that the reason
3 companies provide it on a region wide or nationwide
4 basis is to experience some economies of scales to
5 reduce their overall costs?

6 A That could be one reason among many, yes.

7 Q You've not looked at GTE's avoided cost
8 studies; is that correct?

9 A Yes, I have.

10 Q You've looked at it since your testimony?

11 A Yes.

12 MR. GILLMAN: I have no further questions.

13 Thank you.

14 CHAIRMAN CLARK: Staff.

15 CROSS EXAMINATION

16 BY MS. BARONE:

17 Q Good morning, Mr. Price.

18 A Good morning.

19 Q Do you have a copy of Staff's Exhibits DGP-6
20 and 5? And DGP-6 and DGP-7, I'm sorry.

21 A Yes, I do.

22 Q DGP-6 is your deposition transcript. Do you
23 have any corrections or changes to make to that
24 exhibit? It also includes your Late-Filed Deposition
25 Exhibits 1 and 2.

1 **A** There should be an errata sheet to that
2 deposition, but I don't see it attached.

3 **Q** Would you have a copy with you, sir?

4 **A** I do not. I would need to confer with
5 counsel to see whether we have one here in the room.

6 **CHAIRMAN CLARK:** Ms. Barone, we will just
7 note that the deposition transcript, the Exhibit
8 DGP-6, will include the errata sheet.

9 **MS. BARONE:** Thank you, Madam Chairman.
10 That Staff requests that DGP-6 be marked for
11 identification at this time.

12 **CHAIRMAN CLARK:** It will be marked as
13 Exhibit 24.

14 (Exhibit 24 marked for identification.)

15 **MS. BARONE:** Thank you.

16 **Q** (By Ms. Barone) So, also, do you have
17 DGP-7 which is MCI's response to GTE's first set of
18 interrogatories 1 through 48?

19 **A** Yes, I do.

20 **Q** Were they prepared by you under your
21 supervision?

22 **A** At the risk of giving you the answer that
23 you may not expect, no.

24 **MS. BARONE:** Mr. Melson, can you stipulate
25 this into the record?

1 **MR. MELSON:** MCI no has problem with the
2 stipulation.

3 **MS. BARONE:** Madam Chairman, Staff requests
4 that DGP-7 be marked for identification at this time.

5 **CHAIRMAN CLARK:** We'll identify it as
6 Exhibit 25.

7 (Exhibit 25 marked for identification.)

8 **MS. BARONE:** Thank you.

9 **Q** **(By Ms. Barone)** Mr. Price, on Page 30 at
10 Line 14 of your direct testimony, you state that
11 Section 251(b)(3) of the 1996 Act requires LECs to
12 permit nondiscriminatory access to telephone numbers.
13 Would you please explain what MCI wants this
14 Commission to decide regarding access to telephone
15 numbers in this proceeding, and what issues remain
16 outstanding?

17 **A** There are no outstanding issues on that.
18 That was simply a discussion of -- actually, the point
19 there didn't have to do so much with the -- I think
20 I'm going to start over from the very beginning. I'm
21 sorry.

22 With respect to the provision of telephone
23 numbers, the issue is not one of assignment of
24 numbers, but one of MCI's ability to obtain listing
25 information. MCI's requested in this proceeding that

1 GTE make available all of the directory listing
2 information. And our preference would be that that be
3 done in either an electronic exchange or via magnetic
4 tape so that MCI could utilize that information in
5 providing its own directory assistance services.

6 Q Has GTE agreed to provide both of those?

7 A Not to my knowledge.

8 Q So if GTE were to provide access to
9 telephone numbers as it does today, then this wouldn't
10 meet all of MCI's needs? Is that your testimony?

11 A That's correct. I believe I touched -- bear
12 with me, I'm just looking at my rebuttal testimony
13 real quickly.

14 I touched on this briefly at Pages 6 and 7
15 of my rebuttal testimony where I point out that what
16 we are not looking for is what Mr. Wood described in
17 his testimony as an interface where we would be able
18 to launch a query that would then get to GTE's systems
19 and extract the appropriate listing information from
20 GTE's systems. I was really responding to that, which
21 appeared to be the concern of Mr. Wood's testimony.
22 And the point of my testimony here is what I said
23 earlier, which is, our preferred method would be
24 simply to obtain on a daily or regular feed from GTE
25 the entire database such that we could load that

1 database onto our systems and use our own operators to
2 launch queries to our own databases for that. We
3 believe that's consistent with the Act.

4 And the point of my rebuttal testimony was
5 that there's no -- there should be very little, if
6 any, implementation costs associated with that because
7 the data is probably already stored today in magnetic
8 format in GTE's systems.

9 Q Can you explain why GTE states that they
10 cannot provide that to MCI?

11 A No, I cannot.

12 Q Why is it that the way GTE provides access
13 to telephone numbers won't meet MCI's needs today?
14 Are you familiar with how they do that?

15 A I'm not sure I'm familiar with how they've
16 proposed to do that in a carrier environment except to
17 say that they would allow us to utilize their
18 directory assistance in a sort of a resold manner. In
19 other words, where we would simply buy their entire
20 directory assistance platform from them and pay them a
21 fee for each time that one of our customers requested
22 directory assistance of the GTE operator.

23 What we are proposing is to take all of that
24 in house to MCI, use our own operators and simply get
25 from them the listing information, and then query our

1 systems for the same information when we get a call
2 for directory assistance.

3 Q So you are not aware of whether GTE's
4 proposal would enable MCI to get that information on a
5 daily basis?

6 A My recollection is that they have opposed
7 that.

8 Q They have?

9 A That's my recollection.

10 Q But you are not sure in what fashion they
11 propose to do that?

12 A I didn't catch part of that.

13 Q But you are not sure in what fashion they
14 propose to do that? I think earlier you stated that
15 you wanted that on magnetic tape in another fashion.
16 But are you familiar with what fashion GTE Florida
17 would provide that on a daily basis?

18 A No, I'm sorry, I'm not. I'm not completely
19 familiar with how they've proposed to do that.

20 Q Sir, if they have agreed to provide that to
21 MCI on a daily basis and MCI has requested that on a
22 daily basis, how is it that the way they've proposed
23 will not meet MCI's needs to have that on a daily
24 basis?

25 A I think it would, given the assumption in

1 your question that they've agreed to do that.

2 Q You stated that MCI wants it in a magnetic
3 form, and what was the other form?

4 A Well, the information could be provided
5 either on magnetic tape or through some kind of an
6 electronic interchange.

7 Q Are there any other benefits to having that
8 information in those two forms other than daily basis?

9 A Well, the benefit arises not so much from
10 how it's obtained, except, obviously, you want it in a
11 fashion that allows you to get it into your system in
12 a readable format quickly. So that the benefits --
13 either one of those is really fine. It's just a
14 matter of having access to the information in a way
15 that allows it to be utilized quickly, as opposed to
16 paper directories, for example.

17 Q Now, the number administrator has guidelines
18 to follow in the assignments of telephone numbers;
19 isn't that correct?

20 A The number administrator has guidelines for
21 the assignment of NXX or central office codes, yes.

22 Q If GTE complies with these guidelines, what
23 else would MCI propose GTE do to provide access to
24 telephone numbers?

25 A Well, from a number assignment standpoint

1 where the industry is headed, the FCC's North American
2 Numbering Counsel is now beginning its work to take
3 over the responsibilities that have been performed by
4 the Bell operating companies, and perhaps in some
5 areas GTE, for the assignment of NPAs, for example,
6 for the assignment of NXX codes. So we are hopefully,
7 quickly moving to a scenario where that entire process
8 of number assignment and administration will be
9 competitively neutral. I don't know of any issues
10 that remain for this Commission to decide in that
11 regard.

12 Q Issue 29 in this proceeding discusses rates,
13 terms and conditions for access to code assignments.
14 What rate issue do you think needs to be resolved in
15 this proceeding regarding access to code assignments?

16 A Well, as I read GTE's position at that
17 issue, it says that no one should impose fees or
18 charges. So to that extent, I don't know that there
19 are any rate issues.

20 Q Sir, I would like to direct your attention
21 to your rebuttal testimony for MCI on Page 2. You
22 indicate that the act does not mandate GTE to provide
23 nontelecommunication services, such as voice mail and
24 inside wire services, on a wholesale basis. So are
25 you saying that these services should not be resold?

1 A I'm sorry, I found the reference at Page 2,
2 but there weren't any explicit references to
3 particular services. That's why I was a little
4 confused by your question.

5 Q Well, I'll retract that and state: What
6 about nontelecommunication services? Do you believe
7 those should be resold?

8 A I think they should be. I mean, if we were
9 in a competitive marketplace, GTE would have every
10 incentive to provide whatever services its
11 wholesale -- I'm sorry, its retail competitive
12 customers would want to offer. So I think that those
13 services should be available for resale, although the
14 question is whether or not a discount would apply for
15 a nontelecommunications service. I'm not going to sit
16 here today and argue that the Act requires that they
17 make nontelecommunication services available at a
18 discount.

19 Q Sir, can you give me an example of a
20 nontelecommunication service that you believe needs to
21 be resold?

22 A Probably the best example I could think of
23 would be inside wire maintenance. That is a -- again,
24 as a nonattorney, as I read the definition in the Act
25 of Telecommunications Service, it has to do with the

1 transmission of information, the traditional common
2 carrier type of definition.

3 Voice mail -- I'm sorry. Inside wire -- I
4 think that was a Freudian slip -- inside wire does not
5 involve the transmission -- inside wire maintenance
6 does not involve the transmission of information,
7 although there have been instances in other regions of
8 the country where MCI has lost accounts because the
9 end user did not want to lose the inside wire
10 maintenance feature that they had with the incumbent.

11 Q Sir, I realize you are not an attorney, but
12 would you agree, subject to check, that inside wire is
13 a nonregulated service?

14 A I'm hesitating because I'm certainly not
15 familiar with how that's treated here in Florida. So
16 I would accept, subject to check, that that's the case
17 here in Florida.

18 Q On Page 15 of your rebuttal in the MCI
19 docket at Lines 13 through 17, you list three
20 restrictions that would meet a public policy test. In
21 your opinion, are there any other restrictions based
22 on the Act that could apply to resold services?

23 A No. I think these represent the maximum
24 restrictions that should be permitted. Because to go
25 beyond this would then, as I've stated, would provide

1 GTE with an opportunity to avoid its otherwise
2 applicable obligation to provide all of its
3 telecommunication services for resale at a discount.

4 Q Sir, I have few question regarding
5 Mr. Wellemeyer's rebuttal testimony. On Page 5, at
6 Lines 9 through 25, and Page 6, lines through 8, he
7 states that GTE will not offer for resale the
8 following services: any promotional offerings, public
9 pay telephone lines and semipublic pay telephone
10 lines. Do you believe this is appropriate?

11 A Well, I've already discussed with
12 Mr. Gillman the issue of promotions, and I think I've
13 agreed that the 90-day period that was envisioned in
14 the FCC Order is probably a reasonable point at which
15 to make the distinction between whether or not the
16 promotion should be made available for resale or not.

17 With respect to the other two examples, the
18 two that I recall anyway, I don't -- it's not clear to
19 me that those two examples represented
20 telecommunication services that were provided to
21 carriers. And so, I guess there's a bit of fuzziness
22 in my mind as to the distinction between a service
23 that's a telecommunications service that's offered to
24 a carrier and a telecommunications service that's
25 offered to some other entity that may not be an end

1 user.

2 And the pay phone lines is an example, I
3 guess, of where some of that fuzziness would occur
4 because I don't think most pay phone providers are
5 necessarily carriers. Some may be. But to make that
6 blanket restriction would appear to preclude the
7 resale of pay phone lines, and I don't know that
8 serves a particular public policy benefit at all.

9 Q So do you agree that pay telephones should
10 not be resold?

11 A No, I think they should be. I mean, based
12 on my understanding of what's required in the Act with
13 the fuzziness that I've talked about.

14 Q Mr. Wellemeier also states in his rebuttal
15 on Page 6, at Lines 12 through 25, through Page 7,
16 Lines 1 through 7, that GTE will offer for resale but
17 not at wholesale rates, the following services: any
18 services already priced at wholesale rates, operator
19 services, and directory assistance services and
20 nonrecurring charge services.

21 Do you believe this is appropriate? Would
22 you like me to repeat the list?

23 A Just the list, please.

24 Q Any services already priced at wholesale
25 rates, operator services, and directory assistance

1 services, and nonrecurring charge services. And the
2 question again is that GTE states that it will offer
3 for resale but not at wholesale rates, those services.
4 Do you think that's appropriate? If so, why; and if
5 not, why not?

6 A I'm going to start at the end because that
7 one to me is the most clear one. I'm not sure what a
8 nonrecurring charge service is. I mean, almost every
9 service has nonrecurring charges. If what he is
10 saying is that nonrecurring costs associated with
11 providing a service in a wholesale environment should
12 not be discounted, that really sort of gets into the
13 whole issue of what the appropriate nonrecurring
14 charge should be anyway.

15 If we are talking about the issue that
16 Mr. Gillman and I discussed at some length, we believe
17 that as we move into an environment where the kinds of
18 operational interfaces and systems and processes that
19 should exist come into play, then we believe that the
20 nonrecurring charges to MCI should be less than what
21 the end user charges -- nonrecurring charge are for
22 end users today. Because you have got a situation
23 where the end user calls the business office and
24 interacts with a business office representative in
25 order to set up the service. We will be taking on

1 that function. We will be compiling the service
2 order, if you will, in our view of the world after
3 these processes and systems are developed. And we'll
4 be sending over or providing electronically to GTE all
5 of the information that it needs in order to set up
6 that account.

7 So I guess I agree with him in one sense,
8 which is that the nonrecurring charges that exist
9 today and their end user tariffs really don't have any
10 bearing on the kinds of costs that MCI should pay in
11 the new world tomorrow for the setting up of accounts,
12 because we are talking about GTE performing different
13 kinds of functions for at least a portion of those
14 activities.

15 Looking at the other two examples that were
16 in his testimony, the wholesale -- services that are
17 priced at wholesale and operator services and DA. I'm
18 back to my qualification under the Act, that if it's a
19 service that's provided to end users -- I'm sorry. If
20 it's a service that's provided to other than carriers,
21 then it should be provided for resale and it should be
22 provided at discount rates. I don't see how they get
23 around the obligation under the statute just by saying
24 that it's a service that's, quote, wholesale priced,
25 unless it is provided to a carrier. In which case, I

1 would agree with the exclusion, if you will.

2 Q Sir, I'd also like you to give your opinion
3 on Mr. Wellemeyer's statement on Page 8 of his
4 rebuttal where he states that GTE is not willing to
5 offer existing contract service arrangements for
6 resale at wholesale rates, but will agree to offer new
7 contract services for resale at wholesale rates.

8 And, again, the distinction is between
9 existing contract service arrangements and new
10 contract service arrangements.

11 A Oh, I'm sorry. You started with the
12 question and, I'm sorry, I was writing down the issue.

13 I don't see the distinction. I mean, I'm
14 not sure why new services that are provided under
15 contract should be treated any differently than old
16 services, unless GTE plans to change its pricing that
17 it proposes in the marketplace in order to reflect the
18 fact that it may have to provide the service on a
19 resale basis.

20 It seems to me that if MCI can provide
21 something of benefit to the customer that has an
22 existing contract, it should be permitted that
23 opportunity. And I just don't know why there's a
24 distinction between yesterday and tomorrow.

25 Q Sir, in your opinion, are the USOA accounts

1 provided in the FCC's Order for determining the
2 avoided cost, appropriate for determining the
3 wholesale discount under the Act?

4 **A** Well, for the most part, I think we --
5 obviously, we took great care to try to follow as
6 closely with the FCC's Rules and Order as we could in
7 our recommendation here, although the recommendation
8 that we had originally made to the FCC went far
9 beyond -- or at least went beyond what the FCC
10 ultimately came down on by including a number of other
11 accounts that we believe we should not have to pay for
12 in a wholesale environment.

13 And so, yes, we tried to track as closely
14 with the FCC's Order as we could, but we also proposed
15 to include other costs beyond those which the FCC
16 utilized in its Order and Rules in arriving at an
17 appropriate discount.

18 **Q** I understand that you tried to track the
19 FCC's Order, but do you think that the accounts that
20 the FCC's Order includes are appropriate?

21 **A** Yes.

22 **Q** And are they appropriate for determining the
23 wholesale discount, is the specific question?

24 **A** Yes. Again, with the caveat that that's the
25 best available public information that we had to

1 utilize, yes.

2 MS. BARONE: Thank you. That's all I have.

3 CHAIRMAN CLARK: Commissioners. Redirect.

4 MR. MELSON: Just a couple.

5 REDIRECT EXAMINATION

6 BY MR. MELSON:

7 Q Mr. Price, as a follow up to this very last
8 set of questions, did I understand you to say that
9 MCI's original proposal to the FCC would have counted
10 as avoided amounts in additional accounts that are not
11 reflected in the FCC's Order?

12 A Yes. Those are -- if you look at my Exhibit
13 DGP-5 again, beginning at Line 24, there are eight
14 different accounts that were included in our original
15 proposal to the FCC that were excluded in this
16 analysis in conformance with the FCC's Rules and
17 Order.

18 Q If we did not have the FCC's Rules and Order
19 but had only the Act, would the exclusion of costs in
20 those additional accounts, in your opinion, be
21 consistent with the Act?

22 A Yes.

23 Q I want to go back, follow up on one line of
24 questions. Mr. Gillman asked you about a competitive
25 bidding situation. In a competitive bidding

1 situation, would MCI normally have knowledge of its
2 competitor's bid?

3 A Not until after the contract was let, no.

4 Q And if MCI was awarded the contract based on
5 its bid, does GTE have any contract service to that
6 customer to be resold?

7 A I certainly wouldn't think so.

8 MR. MELSON: That's all I've got.

9 CHAIRMAN CLARK: Exhibits.

10 MR. MELSON: MCI would move 21, 22, and 23.

11 CHAIRMAN CLARK: Without objection those
12 exhibits are admitted in the record.

13 MS. BARONE: Staff moves 24 and 25.

14 CHAIRMAN CLARK: Without objection those
15 exhibits are admitted in the record.

16 We'll go ahead and take a break until 20
17 after, and then we will begin with Mr. Powers. Okay
18 thank you.

19 (Exhibits 21 through 25 received in
20 evidence.)

21 CHAIRMAN CLARK: We'll reconvene the
22 hearing. Mr. Parks, have you been sworn in?

23 WITNESS PARKS: Yes, I have.

24 CHAIRMAN CLARK: Okay.

25

PAUL POWERS

1
2 was called as a witness on behalf of MCI
3 Telecommunications Corporation and, having been duly
4 sworn, testified as follows:

DIRECT EXAMINATION

5
6 **BY MS. MCMILLIN:**

7 Q Mr. Powers, please state your name and
8 business address.

9 A Paul Powers, 8521 Leesburg Pike, Vienna,
10 Virginia, 22182.

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

13 A MCI, local service network engineering and
14 the local interconnect planning group.

15 Q Mr. Powers, are you adopting the direct
16 testimony of Drew Caplan which was filed in this
17 docket on August 26th, 1996 and consists of 48 pages?

18 A Yes, I am.

19 Q And on September 24th, 1996 did you cause to
20 be filed a replacement for Pages 1 and 2 of
21 Mr. Caplan's testimony which substitutes information
22 about your background and experience for that of
23 Mr. Caplan?

24 A Yes, I did.

25 Q With those substitute Pages 1 and 2, do you

1 have any changes or corrections to that testimony?

2 **A** Yes, I have one. Page 11 of my direct
3 testimony, Line 9, the number "54" should read "554".
4 That is all.

5 **Q** Have you prefiled rebuttal testimony in this
6 docket dated September 30th, 1996 and consisting of 11
7 pages?

8 **A** Yes, I have.

9 **Q** Do you have any changes or corrections to
10 that testimony?

11 **A** No, I don't.

12 **Q** With the substitute Pages 1 and 2 to the
13 direct testimony and with the corrections you
14 identified, if I were to ask you the same questions
15 today, would your answers be the same?

16 **A** Yes, they would.

17 **MS. MCMILLIN:** At this time, Madam Chairman,
18 I would ask that Mr. Powers' direct and rebuttal
19 testimony be inserted in the record as though read.

20 **CHAIRMAN CLARK:** That testimony will be
21 inserted in the record as though read.

22

23

24

25

ON BEHALF OF

MCI TELECOMMUNICATIONS CORPORATION AND

MCImetro ACCESS TRANSMISSION SERVICES, INC

(MCI/GTEFL ARBITRATION DOCKET)

(SUBSTITUTE FOR AUGUST 26, 1996 TESTIMONY OF DREW CAPLAN)

Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.

A. My name is Paul R. Powers, and my business address is 8521 Leesburg Pike, Vienna, Virginia 22182.

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

A. I am employed by MCI Telecommunications Corporation as Senior Staff Specialist II with MCI's Local Services Network Engineering. In this position I am responsible for the design and implementation of local interconnection between MCI and local exchange companies. I have also provided technical support for interconnection negotiations with Ameritech, US West, Pacific Bell and GTE.

Q. PLEASE GIVE A BRIEF DESCRIPTION OF YOUR BACKGROUND AND WORK EXPERIENCE.

A. I have a Bachelor of Arts degree from the State University of New York

1 and a Master of Business Administration degree from the University of
2 Maryland Graduate School of Management. I have attended numerous
3 courses and seminars specific to the telecommunications industry,
4 including technical vendor training in switching.

5
6 Before assuming my current position, I was a Technical Consultant II
7 with MCI's Government Systems Marketing group. In that capacity I
8 was the technical manager for government pay telephone contracts,
9 including contracts in the Pacific Bell, Ameritech, Bell Atlantic, and GTE
10 territories. Prior to that, I was a Staff Specialist for MCI's Network
11 Capacity Planning. In that position I designed circuit configurations and
12 physical plant locations for MCI's Operator Services network, forecasted
13 traffic and hardware and software requirements for shared voice and
14 data networks, and developed automated tracking systems to monitor
15 progress of local exchange company compliance with 800 and 900
16 service testing and evaluation requirements.

17

18 Q. HAVE YOU PREVIOUSLY TESTIFIED?

19 A. No, but I did make a presentation on local interconnection and collocation
20 issues to the Minnesota Public Utilities Commission in August, 1996.

21

22 Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

23 A. The purpose of my testimony is to address the following topics: (1) *the*
24 *MCI Local Network*: an overview of the local network that MCI is
25 installing; (2) *the Interconnection of Networks*: the steps necessary to

1 interconnect MCI's local network with the ILEC network so that all forms
2 of traffic can be exchanged between the networks; (3) **Access to**
3 **Unbundled Network Elements:** a description of unbundled network
4 elements that MCI is requesting and how MCI proposes to gain access to
5 these unbundled elements; and (4) **Collocation:** a description of
6 collocation arrangements required under the Act and under the FCC's
7 recent order. I will also discuss related issues such as ordering and
8 provisioning that play a critical role in the success or failure of
9 interconnection and use of unbundled elements.

10 Network unbundling will allow MCI and other competitive local
11 exchange companies ("CLECs") to provide a wide variety of new products
12 to a broad array of customers using portions of the ubiquitous ILEC
13 network combined with differentiating network elements provided by the
14 CLEC. Interconnection, effective network unbundling, and procedures to
15 make collocation viable are essential in order for competition to become a
16 reality in the local exchange market.

17

18 **MCI'S LOCAL NETWORK**

19 **Q. PLEASE DESCRIBE THE LOCAL NETWORK MCI IS INSTALLING.**

20 **A.** To understand MCI's need for interconnection, access to unbundled
21 elements and collocation, it is necessary to understand MCI's local
22 network and how MCI plans to use that network to provide local service.
23 MCImetro is MCI's subsidiary in charge of constructing local networks
24 and, from a technical perspective, interconnecting MCI's local network
25 with the ILEC's network. To understand MCImetro's network, how it has

1 evolved, and how it will continue to evolve, it is necessary to understand
2 the history of MCImetro. MCImetro began its corporate life as a special
3 access provider, also known as a competitive access provider (CAP).
4 Special access providers provide high capacity network facilities to mid
5 and large business customers for the purpose of originating and
6 terminating interexchange traffic directly to or from the interexchange
7 carrier. As such, MCImetro's original network consisted of a limited set
8 of fiber optic rings in several urban areas.

9 In January 1994, MCI made the decision to expand MCImetro to
10 offer switched local services. Beginning with the fiber rings, MCI
11 embarked on a capital construction program with two major goals. First,
12 MCImetro had to expand its existing fiber ring facilities to reach more
13 customer buildings and construct new rings in other urban areas.
14 Second, MCImetro had to install local switches to provide switched
15 services. (MCI's interexchange switches were not suitable for handling
16 local traffic without significant modifications.) Over the last two and one
17 half years, MCI has invested over \$700 million in its local network. As a
18 result, as of the date of my testimony, MCI's local networks, nationwide,
19 consist of approximately 2,600 route miles of fiber rings and 13
20 switches.

21 While MCI's local network is growing, it is still small compared to
22 the ubiquitous reach of the ILECs' networks. While MCImetro has been
23 building local networks for just over 2 years, the ILECs have been
24 building local networks for over one hundred years. While MCI's local
25 network passes by several thousand buildings in mostly urban areas, the

1 ILECs' networks reach into practically every building and home in the
2 country. While MCImetro has installed 13 local switches, the ILECs
3 collectively own over 23,000 local switches. It is not an overstatement
4 to say that the ILECs' networks are practically everywhere.

5

6 Q. WHAT IS MCI'S GOAL IN PROVIDING LOCAL SERVICE?

7 A. MCI's goal is to reach a broad array of customers, business and
8 residential, to provide local services that are consistent across geographic
9 areas and are differentiated from today's monopoly offerings. Thus, while
10 total service resale is part of MCI's local efforts and will in some
11 circumstances be MCI's vehicle for initial entry into the local market,
12 resale alone will not allow MCI to differentiate its service or develop
13 consistent services across geographic areas. In order to reach that goal,
14 and enable true competition in the local services market, MCI and other
15 competitive local exchange carriers (CLECs) must be able to create and
16 offer their own services. The primary means of achieving this is through
17 deployment of MCI's own local facilities. This has been the path that
18 MCI has chosen to date. However, as mentioned earlier, MCI's
19 significant investment in switching and network construction over the
20 past two plus years has only allowed it to reach a maximum of several
21 thousand buildings, mostly in urban areas. Network unbundling,
22 discussed in more detail below, will allow MCI and other CLECs to
23 provide a broad array of new products to a much larger group of
24 customers using portions of the ubiquitous ILEC network combined with
25 differentiating network elements provided by the CLEC. Without

1 effective ILEC network unbundling, real competition will not become a
2 reality.

3 One further item is worth noting. MCI's local network has a
4 substantially different architecture than that of the ILEC. ILEC networks,
5 developed over many decades, employ an architecture characterized by a
6 large number of switches within a hierarchical system, with relatively
7 short subscriber loops. By contrast, MCI's local network employs state-
8 of-the-art equipment and design principals based on the technology
9 available today, particularly optical fiber rings, that does not require the
10 deployment of as many switches. In general, there is a trade-off
11 between the number of switches and the length of the local loop. The
12 fewer the switches deployed in any given territory, the longer the loop
13 length necessary to serve customers, and vice versa. In any given
14 service territory, MCI will have deployed fewer switches than the ILEC.
15 In general, at least for now, MCI's switches all serve areas at least equal
16 in size if not greater than the serving area of the ILEC tandem. For
17 example, in Baltimore, Bell Atlantic uses two access tandems to serve the
18 Baltimore local calling area. MCI uses just one. Thus, MCI's one switch
19 in Baltimore serves an area actually greater than the service area of either
20 of BA's tandems. Similarly, in New York, NYNEX has six tandems
21 access that serve the New York Metropolitan LATA; initially, MCI has
22 deployed one switch to serve the same geography. This last point
23 becomes critical later in my testimony as I discuss reciprocal
24 compensation arrangements for transport and termination of traffic.

25 In sum, MCI's recent but very real experience in deploying local

1 services gives it a unique perspective on what it takes to make
2 competition a reality. Our "hands on" experience allows us to be very
3 clear on what will be required in the areas of implementing network
4 interconnection and gaining access to unbundled ILEC network elements.

5

6 **INTERCONNECTION OF NETWORKS**

7 Q. WHAT IS INTERCONNECTION AND WHY IS IT IMPORTANT?

8 A. Building a local network means nothing unless that network can be
9 seamlessly interconnected with the ILEC's network and with the
10 networks of other telecommunications carriers. In the context of my
11 testimony, interconnection means the linking of networks. The point at
12 which MCI's local network physically connects to the ILEC's network is
13 called the interconnection point (IP), or sometimes the point of
14 interconnection (POI). This definition of "interconnection" is consistent
15 with how the FCC defined that term at Paragraph 176 of the First Report
16 and Order in CC Docket No. 96-98, In the Matter of Implementation of
17 the Local Competition Provisions in the Telecommunications Act of 1996
18 (the "Order"). Connection of unbundled elements ("access to unbundled
19 elements") to the MCI network is discussed later in my testimony.

20 The IP plays a critical role in overall interconnection. From a
21 financial perspective, the IP represents the "financial demarcation" -- the
22 point where MCI's network ends and the ILEC's "transport and
23 termination" charges begin. From an engineering perspective, there are
24 variety of things that must happen at the IP to make interconnection
25 seamless and complete. In my testimony, I focus on the engineering

1 aspects, but obviously the financial ramifications have a significant
2 impact on how we interconnect and exchange traffic with the ILEC.
3 Therefore, there also is a later discussion about the financial implications
4 of interconnection.

5

6 Q. WHAT IS REQUIRED TO PHYSICALLY LINK MCI'S LOCAL NETWORK
7 WITH THE NETWORKS OF INCUMBENT LOCAL EXCHANGE CARRIERS?

8 A. From MCI's viewpoint, physical linking of networks is not a daunting
9 engineering task. Carriers have interconnected networks -- local network
10 to local network and interexchange network to local network -- for years.
11 Thus, physical linking is neither new nor overly complicated.

12

13 Physical linking of networks involves the following steps:

14

15 • The physical connection of MCI's facilities to the ILEC facilities at
16 the interconnection point (IP).

17

18 • The establishment of trunking arrangements for the exchange of
19 local traffic, for the exchange of intraLATA and interLATA toll
20 traffic, for "operator-to-operator" calls, for directory assistance
21 calls, for 911/E911 calls, and for "transit" traffic.

22

23 • The physical connection of MCI's signaling network and the ILEC's
24 signaling network so that signaling information can be exchanged.

25

1 I discuss these steps in more detail below.

2

3 **1. Interconnection Point (IP) for exchange of traffic**

4 Q. WHAT ISSUES ARE INVOLVED IN THE ESTABLISHMENT OF AN
5 INTERCONNECTION POINT (IP)?

6 A. From an engineering perspective, establishment of the IP includes
7 determination of where the IP is located, the method of interconnection,
8 and the types of facilities that will be used to carry traffic back and forth
9 over the IP.

10

11 a. *Location of the IP*

12 Q. PLEASE DISCUSS THE LOCATION OF THE IP.

13 A. As the Act and the FCC Order states, the ILEC must provide
14 interconnection "at any technically feasible point within the ILEC's
15 network." (Final Rules, Section 51.305(a)(2)) Thus, MCI, as the new
16 entrant, is permitted to select the IP from any point in the ILEC's network
17 where it is technically feasible to physically interconnect networks and
18 exchange traffic. (Order, at Paragraph 220, footnote 464) Specifically,
19 MCI must have the ability to select the location or locations of any IP so
20 long as it is within the LATA that contains the end offices for which
21 traffic will be exchanged. Moreover, as the FCC Order notes,
22 "technically feasible" under this definition "refers solely to technical or
23 operational concerns, rather than economic, space, or site
24 considerations." Thus, so long as the ILEC can -- from a technical
25 perspective -- take the traffic from the IP and terminate it to any

1 particular end office, then that IP is technically feasible.

2 I raise this because of a special problem MCI has faced in New
3 York with NYTEL. NYTEL has attempted to make MCI establish IPs at
4 each of their access tandems in the LATA that covers the Metropolitan
5 New York City area. There are six such access tandems in that LATA.
6 Clearly, for a new entrant such as MCI, physically building out facilities to
7 establish an IP at each of those access tandems would be a time
8 consuming and expensive proposition, delaying the ability of MCI to offer
9 service in that LATA and making it more expensive than necessary to
10 offer that service.

11 The "technical feasibility" portion of the FCC Order precludes
12 NYTEL from insisting on this build out, and here's why. MCI already has
13 established an IP with NYTEL in Manhattan. Because of NYTEL's
14 extensive transport network in the LATA, it is technically feasible for
15 NYTEL to take traffic from that IP and transport it to any end office in the
16 LATA, regardless of which access tandem that end office subtends.
17 Therefore, that IP can -- and at MCI's discretion should -- serve as the IP
18 for the entire LATA. I also note that Ameritech and MFS have agreed to
19 a single IP per LATA.

20 Naturally, however, any decision on where an IP is located or
21 whether to use more than one IP will have an impact on the transport
22 portion of any transport and termination compensation paid to the ILEC.
23 If MCI chooses to have only one IP in the LATA, for example, the
24 transport charges that MCI must pay as part of "transport and
25 termination" for local calls will reflect the increased distance that calls

1 must travel from the IP to the particular end office where they terminate.
2 This will be discussed in more detail later in my testimony where I
3 address the financial implications of network interconnection.

4 At section 51.305(a)(2) of its Rules, the FCC identifies the
5 minimum set of places where the ILECs must provide interconnection, but
6 explicitly states in that section that interconnection must be provided at
7 "at any technically feasible point within the incumbent LEC's network."
8 Thus, the FCC explicitly did not limit potential IPs to these locations
9 (Order at paragraphs 209, 549, 550, 551, 552, 553, and ⁵⁵⁴~~54~~). It is
10 technically feasible to establish an IP at most points on the ILEC network
11 where ILEC facilities meet each other or meet other facilities (either the
12 ILEC's or some other entity's facilities).

13 In engineering terms, facilities are always connected with each
14 other at what are called "cross-connect points." Cross-connect points,
15 as the name implies, are places in any network where one facility can be
16 connected to another, either manually or electronically. With a manual
17 cross connect, two facilities are physically connected by means of a third
18 piece called a "jumper." Simply put: Wire A comes in to a point on the
19 cross to connect apparatus, and Wire B comes in on another point. Then
20 a jumper is used connect Wire A to Wire B. A main distribution frame
21 (MDF) or any similar "patch panel" is an example of a manual cross-
22 connect device. With an electronic cross-connect, there is no jumper
23 wire, rather, the "jumper connection" is performed electronically. A DCS
24 (digital cross connect system) is an example of an electronic cross
25 connect.

1 IP's do not have to be limited to residing at an ILEC tandem or end
2 office switch. The FCC's Order specifies some potential interconnection
3 points; each one of those is a "cross-connect point," as I have defined
4 that term, in either a tandem switch or an end office switch. There are
5 other cross-connect points in the ILEC network, however. For example,
6 MCI's switches are generally located in commercial office buildings. For
7 any particular MCI switch, the ILEC will also have network facilities into
8 that building that end at what is called a "telco closet." A telco closet in
9 this sense includes -- or can technically support -- a cross-connect
10 device. Thus, an ILEC telco closet in a commercial building can also
11 serve as an IP. In fact, MCI interconnects with Ameritech at such telco
12 closets now in Detroit. Thus, this type of IP is certainly technically
13 feasible.

14

15 *b. Methods of Interconnection*

16 Q. PLEASE DISCUSS THE VARIOUS METHODS OF INTERCONNECTION.

17 A. The FCC permits any method of interconnection that is technically
18 feasible. (Order at paragraph 549) In its Order, the FCC discusses three
19 specific methods of interconnection: physical collocation, virtual
20 collocation, or meet point. (Order at paragraph 553) Collocation, either
21 virtual or physical, is well known from a technical perspective and is
22 discussed later in my testimony.

23 Meet point arrangements are also well known. Under a typical
24 "meet point" arrangement, MCI and the ILEC would each "build out" to a
25 meet point. Under this type of arrangement the official "IP" -- as I have

1 been using that term -- is the point where the ILEC build out connects to
2 the rest of the ILEC network. The "limited build out" to the meet point is
3 the financial responsibility of each party and is part of what the FCC calls
4 the "reasonable accommodation of interconnection." (Order at paragraph
5 553)

6 A variation of this is what I refer to as "mid-span meet." Under
7 this arrangement, MCI and the ILEC would jointly provision the fiber
8 optic facilities that connect the two networks and share the financial and
9 other responsibilities (as detailed below) for that facility. In this situation,
10 the facilities do not actually join at a "cross-connect point" but are
11 spliced together. This is essentially the method of interconnection that
12 MFS and Ameritech agreed to. Thus, it is certainly technically feasible.

13

14 *c. Types of facilities at the IP*

15 Q. WHAT TYPES OF FACILITIES CAN BE USED AT THE IP?

16 A. Having determined the location of the IP, it is necessary, from an
17 engineering perspective to determine the types of facilities that will be
18 used to interconnect. The types of facilities that are used to link the
19 networks, regardless of the types of traffic carried, are well known both
20 to MCI and to the ILECs. Network interconnection may occur at light
21 (fiber) level, or at DS3, DS1, or voice-grade levels.

22

23 **2. Trunking and Interconnection of Signaling Networks**

24 Q. WHAT ARRANGEMENTS SHOULD BE PROVIDED FOR THE TRUNKING
25 OF TRAFFIC?

- 1 A. Once networks are physically connected via the facilities and
2 arrangements as described above, then it is necessary from an
3 engineering perspective to partition those facilities into various types of
4 trunk groups required to carry the different types of traffic that are
5 necessary for complete interconnection. Based on our experience, MCI
6 believes that traffic should be segregated as follows:
- 7 • a separate trunk group that carries local traffic, non-equal access
8 intraLATA interexchange traffic, and local transit traffic to other
9 LECs.
 - 10 • a separate trunk group for equal access interLATA or intraLATA
11 interexchange traffic that transits the ILEC network.
 - 12 • separate trunks connecting MCI's switch to each 911/E911
13 tandem.
 - 14 • a separate trunk group connecting MCI's switch to the ILEC's
15 operator service center. This permits MCI's operators to talk to
16 the ILEC's operators. Operator-to-operator connection is critical
17 to ensure that operator assisted emergency calls are handled
18 correctly and to ensure that one carrier's customer can receive
19 busy line verification or busy line interrupt if the other end user is a
20 customer of a different LEC.
 - 21 • a separate trunk group connecting MCI's switch to the ILEC's
22 directory assistance center where MCI is purchasing the ILEC's
23 unbundled directory assistance service.
- 24 With regard to the first requested trunk group, the Commission should
25 note that there is no technical requirement to segregate local and

1 intraLATA interexchange traffic on separate trunk groups. Indeed, it is
2 often more efficient to "pack" a trunk with both local traffic and
3 interexchange traffic. Because these types of traffic are "rated"
4 differently, however, the receiving carrier would either have to discern
5 between types itself or have to rely on reporting by the sending carrier,
6 via a "percent local usage" (PLU) or similar reporting mechanism. The
7 trunk segregation detailed above is an initial architecture that meets
8 MCI's immediate needs for interconnection. As MCI's network evolves,
9 and as we seek to provide new services, there may be a requirement for
10 a further or different combination of traffic types. For example, it may be
11 efficient for MCI to aggregate local and interexchange traffic on a single
12 trunk. It is incumbent upon the ILEC to prove that a request for a revised
13 traffic combination is technically infeasible.

14

15 Q. WHAT SIGNALLING SHOULD BE PROVIDED WITH RESPECT TO THESE
16 TRUNK GROUPS?

17 A. The trunk groups that connect the networks will require specific signaling
18 characteristics. The trunks that carry local and interexchange traffic are
19 generally similar to the industry standard Feature Group D trunks with
20 CCS7 signaling. MCI requires CCS7 signaling on all trunks used to pass
21 local and interexchange traffic. The specific details about the
22 interconnection of signaling networks is discussed later in my testimony
23 where I address access to unbundled elements. MCI also requires that
24 the trunks used to carry local and interexchange traffic are configured
25 with B8ZS Extended Superframe (ESF). B8ZS ESF is required to support

1 the transmission of 64Kbps ("Clear Channel") traffic between the
2 networks of ILECs and CLECs. Without Clear Channel transmission,
3 subscribers of ILECs and CLECs would not be able to terminate various
4 types of switched data traffic, including some ISDN applications.

5 Trunks can also be either one-way or two-way. Generally, two-
6 way trunking is more efficient than one-way trunking for traffic that flows
7 in both directions (for example, local and interexchange traffic), since,
8 with two-way trunking, fewer trunks are needed to establish the
9 interconnection than are needed when ILECs insist only on one-way
10 trunking. The FCC has recognized the benefits of two-way trunking by
11 ordering ILECs to make them available upon a CLEC's request (Order,
12 Paragraph 219).

13

14 Q. YOU PREVIOUSLY MENTIONED THAT THE FINANCIAL IMPLICATIONS
15 OF INTERCONNECTION MUST BE CONSIDERED. WHAT ARE THE
16 FINANCIAL IMPLICATIONS WHICH ARISE IN CONNECTION WITH THE
17 PHYSICAL LINKING OF NETWORKS?

18 A. Whenever networks are interconnected and traffic is exchanged, a major
19 issue between the parties -- bluntly stated -- is "Who pays for what?"
20 Fortunately, the FCC Order provided some very specific definitions that
21 help determine financial responsibility. As noted above, the IP is the
22 point where the MCI network physically connects with the ILEC network.
23 Generally, therefore, each carrier is responsible for bringing or getting its
24 facilities to the IP.

25 When an MCI customer makes a local call to an ILEC customer,

1 MCI will hand off that call to the ILEC at the IP. MCI then must pay the
2 ILEC compensation for the "transport and termination" of that local call.
3 (Final Rules, Section 51.701) The FCC has separately -- and specifically --
4 - defined "transport" and "termination" in this context. (Order at
5 Paragraph 1039) "Transport" is defined as "the transmission and any
6 necessary tandem switching of local telecommunications traffic ... from
7 the interconnection point between the two carriers to the terminating
8 carrier's end office switch that directly serves the called party...." (Final
9 Rules, Section 51.701(c)) "Termination" is defined as "the switching of
10 local telecommunications traffic at the terminating carrier's end office
11 switch...." (Final Rules, Section 51.701(d)) Thus, the IP determines the
12 point at which MCI (when it is terminating local traffic to the ILEC) must
13 begin paying transport and termination compensation to the ILEC-

14 Conversely, when an ILEC must hand over local traffic to MCI for
15 MCI to "transport and terminate," the ILEC must use the established IP.
16 For the ILEC to be allowed to do anything else would eviscerate the
17 FCC's requirement that the ILEC permit the use of two-way trunking.
18 Thus, the IP also serves as the point at which the ILEC must begin
19 payment of "transport and termination" to MCI when it terminates a local
20 call on MCI's local network.

21 It is important to note that in Section 51.711 of the Final Rules the
22 FCC has determined that "rates for transport and termination of local
23 telecommunications traffic shall be symmetrical." In addition, the FCC
24 has decided that "where the switch of a carrier other than an incumbent
25 LEC serves a geographic area comparable to the area served by the

1 incumbent LEC's tandem switch, the appropriate rate for the carrier other
2 than the incumbent LEC is the incumbent LEC's tandem interconnection
3 rate." I noted previously that MCI's switch clearly serves a geographic
4 area comparable to the area served by the ILEC's tandem. Therefore,
5 MCI believes it is appropriate for it to charge the ILEC the tandem
6 interconnection rate (defined as tandem switching plus the average
7 transport between an ILEC tandem and the subtending end offices plus
8 the local switching rate) for calls terminating to MCI's network. In
9 addition, the ILEC and MCI will share the cost of the facilities used to
10 interconnect the networks as defined by the location of the IP.

11 The FCC also determined, in section 51.709 of the Final Rules,
12 that "the rate of a carrier providing transmission facilities dedicated to the
13 transmission of traffic between two carriers networks shall recover only
14 the costs of the proportion of that trunk capacity used by an
15 interconnecting carrier to send traffic that will terminate on the providing
16 carrier's network."

17

18 Q. COULD YOU GIVE AN EXAMPLE OF HOW THE SELECTION OF AN IP
19 AFFECTS THE FINANCIAL ARRANGEMENTS?

20 A. Yes, given all this, it is possible to walk through two examples to
21 describe how the selection of the IP affects the "transport and
22 termination" charge that both MCI and the ILEC must face.

23 ***Example 1: MCI Collocates at the Wire Center Housing an***
24 ***Access Tandem to Which MCI Needs to Trunk.***

25 In this example, MCI has established a collocation at the wire

- 1 center housing a tandem; the collocation will be designated as the IP.
2 Two-way trunking will be established between the MCI switch and the
3 ILEC tandem via the collocation facilities.
- 4 o The Transport and Termination Charges to MCI for calls
5 terminating on the ILEC network are:
- 6 (1) tandem switching and transport from the tandem to the end
7 office where the call terminates (based on average transport
8 from ILEC tandem to subtending end offices); plus
9 (2) termination at the end office.
- 10 The total rate paid by MCI in this case is also known as the
11 Tandem Transport and Termination rate or Tandem Interconnection
12 Rate.
- 13
- 14 o The Transport and Termination Charges to the ILEC for calls
15 terminating on MCI's network are:
- 16 (1) Transport from the IP to the MCI switching center (as
17 discussed in Final Rules, Section 51.709), plus
18 (2) The symmetrical Tandem Transport and Termination.
- 19 In this example, the ILEC pays for the transport from the IP at its
20 access tandem to the MCI switching center because MCI has
21 provided the facilities from that switching center to the IP, and the
22 ILEC is using those facilities to transport local traffic from the IP
23 back to the MCI switching center. Once the call reaches the MCI
24 switching center, however, MCI is permitted to charge the ILEC a
25 transport and termination rate equal to the ILEC's tandem

1 interconnection rate since MCI's switch serves an area comparable
 2 (if not larger) than the area served by the ILEC's tandem switch.
 3 (Final Rules, Section 51.711(3))

4 As detailed above, the specific symmetrical tandem transport and
 5 termination rate should be calculated as follows:

- 6 • Tandem switching rate, plus
- 7 • Shared transport based on average mileage from the ILEC
 8 tandem to the various end offices that subtend that tandem.

9

10 ***Example 2: IP At an Agreed to Meetpoint***

11 In this example, MCI will jointly provision interconnect facilities to
 12 an agreed to meetpoint at a technically feasible location on the ILEC's
 13 network. The IP is at this meetpoint. MCI and the ILEC will establish
 14 two-way trunking to both an access tandem and an end office via these
 15 interconnection facilities.

- 16 o The Transport and Termination charges to MCI for traffic
 17 terminating to the ILEC via the tandem switch are:
 - 18 (1) transport from the IP to the access tandem; plus
 - 19 (2) the Tandem Interconnection/Transport and Termination
 20 Rate, as described in Example 1.
- 21
- 22 o The Transport and Termination charges to ILEC for traffic
 23 terminating to MCI via the tandem switch are:
 - 24 (1) transport from IP to the MCI switching center; plus
 - 25 (2) the symmetrical ILEC Tandem Interconnection/Transport and

1 Termination Rate.

2

3 o The Transport and Termination charges to MCI for traffic
4 terminating to the ILEC via direct end office trunking (bypassing
5 the tandem switch) are:

6 (1) transport from the IP to the ILEC end office switch, plus

7 (2) the local termination rate.

8

9 o The Transport and Termination charges to the ILEC for traffic
10 terminating to MCI via the direct end office trunking are:

11 (1) transport from the IP to the MCI switching center, plus

12 (2) the symmetrical ILEC Tandem Interconnection/Transport and
13 Termination Rate.

14 There are, of course, other options and possibilities, but the concept will
15 be the same. The IP will delineate not only the physical point where one
16 network ends and another begins, but also will determine the transport
17 and termination charges that each carrier must pay to one another.

18

19 ACCESS TO UNBUNDLED NETWORK ELEMENTS

20 Q. WHY IS IT IMPORTANT FOR MCI TO HAVE ACCESS TO THE
21 UNBUNDLED ELEMENTS OF THE INCUMBENT LOCAL EXCHANGE
22 COMPANIES' NETWORKS?

23 A. As noted previously, MCI desires to offer local service as broadly as
24 possible to both residential and business customers. MCI's local
25 network, however, currently consists of high capacity fiber rings in

1 downtown areas. While some residential apartment buildings may be
2 accessible via MCI's fiber ring, this network, by itself, simply does not
3 have the reach to serve a broad base of residential and business
4 customers. Additionally, although MCI continues to implement local
5 service switching centers throughout the nation, its capacity for providing
6 switched services is extremely limited. Each of the 13 switches that MCI
7 has implemented to date is capable of serving only 30,000 to 50,000
8 customers -- a drop in the bucket compared to the national base of over
9 100 million customers. To reach this larger base, MCI must have access
10 to the unbundled elements of the ILEC's ubiquitous network.

11

12 Q. WHAT IS THE EFFECT OF THE FCC ORDER ON THE ISSUE OF WHICH
13 UNBUNDLED ELEMENTS MUST BE MADE AVAILABLE BY THE ILECS?

14 A. The FCC's order mandates a set of seven unbundled elements that the
15 ILEC must make available. The FCC ordered this first set of elements
16 with the explicit recognition that further unbundling may be appropriate
17 today, but it did not have the necessary information on the record to
18 make such judgments, and therefore left that to the states to determine.
19 It also indicated that further unbundling will be appropriate in the future.
20 The FCC rules explicitly allows the states to order more unbundling on a
21 case by case basis. MCI, in this arbitration, requests the Florida
22 Commission to order unbundling beyond the minimum set in the FCC's
23 order since there are additional elements that meet the FCC criteria. In
24 addition, as networks evolve, it will be necessary on occasion to request
25 additional unbundled elements. MCI is requesting an expedited bona fide

1 request process to accomplish that future unbundling. That process is
2 described in the testimony of MCI witness Don Price. The FCC's
3 minimum set of elements includes some network elements, as defined in
4 the Act, such as operator services and directory assistance, that are
5 discussed in Mr. Price's testimony.

6

7 Q. WHAT ARE THE UNBUNDLED NETWORK ELEMENTS REQUESTED BY
8 MCI AND HOW DOES MCI PROPOSE TO GAIN ACCESS TO THEM?

9 A. The FCC rules require the ILECs to unbundle a set of elements, but do
10 not specify a method of implementation to ensure the unbundled
11 elements are usable to requesting carriers. This task must be performed
12 by state commissions. Although access to these elements is necessary,
13 it is not sufficient for CLECs to be viable providers: the terms and
14 conditions at which they are available also effect our viability. In the
15 following testimony, I will review each element to give this Commission
16 some direction on how to best ensure proper implementation by the
17 ILECs. I will also describe the additional elements that meet the FCC
18 criteria and that the Florida Commission should include in the ILEC's
19 initial unbundling requirements. For each element, I will provide a basic
20 description of the element, why that element is necessary to be
21 unbundled, and how MCI proposes to gain access to that element from
22 an engineering perspective.

23

24 **A. *Connecting Unbundled Elements***

25 Q. PLEASE DESCRIBE HOW UNBUNDLED NETWORK ELEMENTS ARE

1 CONNECTED.

2 A. Physical unbundled network elements (elements other than call
3 processing databases) interconnect to other network elements or to CLEC
4 collocations in a similar fashion. The elements terminate at some type of
5 cross-connect devices (these devices can be Main Distribution Frames,
6 or DS-1 or DS-3 cross-connect devices, for example). To connect the
7 unbundled network element to either another element or to an MCI
8 collocation (which also terminates at a cross-connect device), the ILEC
9 must supply connecting cabling, which includes jumper wires to connect
10 positions within a cross-connect device as well as house cabling running
11 between the two cross-connect devices. Both the jumper cabling and
12 house cabling are, very simply, just wires. There are no electronics or
13 other intelligence associated with this cabling. Arranging this cabling
14 may appear to be a minor issue in the larger scheme of unbundling of the
15 network -- in fact, identical connection cabling and is routinely
16 provisioned by the ILECs to connect its own network elements today.
17 However, we have found, through first-hand experience, that the
18 untimely, inaccurate and expensive provisioning of such cabling can be a
19 significant bottleneck to network unbundling.

20 Each physical network element detailed below must also include
21 the cabling required to make it operational, unless otherwise noted.

22

23 ***B. Elements the FCC Ordered to be Unbundled***

24 **1. Local Loop**

25 Q. WHAT ARE LOCAL LOOPS AND HOW SHOULD THEY BE PROVISIONED?

1 A. The FCC defines the local loop as “a transmission facility between a
2 distribution frame [cross-connect], or its equivalent, in an incumbent LEC
3 central office, and the network interface device at the customer
4 premises. This includes, but is not necessarily limited to, two- wire
5 analog voice-grade loops, and two-wire and four-wire loops that are
6 conditioned to transmit the digital signals needed to provide ISDN, ADSL,
7 HDSL, and DS1-level signals. ” (Order at paragraph 380)

8 As the definition implies, unbundled loops end at the distribution
9 frame of the ILEC. As discussed earlier, appropriate cabling will be
10 required to connect the unbundled loop’s frame appearance to other
11 cross-connect points to access other network elements or MCI’s or a
12 third party’s collocation. This cabling must be efficient and available in a
13 timely fashion. Otherwise, it will not be financially feasible for MCI to
14 utilize unbundled loops and MCI’s ability to reach residential and small
15 business customers will be extremely curtailed.

16 MCI anticipates provisioning unbundled loops in a variety of ways,
17 each of which is clearly supported by the FCC rules. These methods
18 include, but are not limited to:

- 19 • connecting the unbundled loop to an MCI collocation where MCI
20 has placed digital loop carrier equipment (DLC) or other subscriber
21 loop electronics of its choice. The DLC or DLC-type equipment will
22 then be connected to interoffice transport facilities, either owned
23 by MCI or leased from the ILEC or third party, that connect the
24 collocated space to MCI’s network
- 25 • combining the unbundled loop to other unbundled network

- 1 elements, such as ILEC provided transport or switching
- 2 • connecting the unbundled loop to a third party collocation for
- 3 provision of transport or other services

4 Several things are critical to make these arrangements work. First, there

5 must not be unreasonable delays in establishing collocation, and the

6 costs for collocation must be economically sound. In New York, for

7 example, establishing collocations can sometimes take up to nine months

8 and cost over \$50,000 to just build the "collocation cage." This kind of

9 delay and expense is intolerable. Second, MCI must have the ability to

10 place the electronics of its choice in the collocated space. Some ILECs,

11 such as Pacific Bell, have denied MCI's request to have this choice and

12 thus in essence hold "veto power" over MCI's network design. Not only

13 will this restriction prevent MCI and other CLECs from efficiently

14 capturing the unbundled loop, it will delay the deployment state of the art

15 network and limit our ability to differentiate our services from the ILEC.

16 All of these issues are later in my testimony in the collocation discussion.

17

18 Q. WHAT ARRANGEMENTS SHOULD BE MADE FOR TRANSFERRING

19 SERVICE TO MCI FROM AN ILEC?

20 A. Another issue is important when it comes to gaining access to unbundled

21 loops -- coordinated (or "hot") cutovers. When MCI gains an existing

22 ILEC customer and needs that unbundled local loop to serve that

23 customer, then that local loop will need to be "cut over" from the ILEC to

24 MCI. Mechanically, this is not a complex task; it only involves the

25 movement of jumper wires on the MDF. Most importantly, however, the

1 cutover cannot result in significant "downtime" for the customer's
2 telephone line. Not only could that customer's safety be jeopardized, but
3 such a degradation of service would be a significant disadvantage in
4 switching service to MCI.

5 MCI proposes the following procedure for coordinated cutovers:

6 (1) On a per order basis, the ILEC and Metro will agree on a
7 scheduled conversion time, which will be a designated two-hour time
8 period within a designated date.

9 (2) The ILEC will coordinate activities of all ILEC work groups
10 involved with the conversion. This coordination will include, but not be
11 limited to, work centers charged with manual cross-connects, electronic
12 cross-connect mapping, and switch translations (including, but not limited
13 to, implementation of interim local number portability translations).

14 (3) The ILEC will notify MCI when conversion is complete.

15 (4) End user service interruptions will be minimized and should
16 not exceed five minutes.

17

18 **2. Network Interface Device**

19 Q. PLEASE DESCRIBE THE UNBUNDLED ELEMENT KNOWN AS THE
20 NETWORK INTERFACE DEVICE.

21 A. The Network Interface Device (NID) is "the cross-connect device used to
22 connect LEC loop facilities to inside wiring not belonging to the LEC."
23 The FCC Order, at paragraphs 392 and 393, describes the need for
24 access to the NID. In summary, it is necessary on many occasions when
25 serving large residential or office buildings in order to gain access to the

1 inside wiring that is not owned by the ILEC.

2 According to the FCC Order, MCI should be able to gain access to
 3 the ILEC NID by connecting its own NID to the ILEC NID. This form of
 4 NID-to-NID connection is technically feasible and does not raise reliability
 5 concerns. It will be incumbent upon the ILEC to demonstrate that such
 6 connection is not feasible, and, if not, to detail the specific building
 7 locations at which such connection is not feasible. We expect that
 8 generally cabling to connect the NIDs will be provided by the ILECs.

9 If connection to the NID involves a cutover of live customer traffic
 10 at that premise, then the cutover procedures described above must be
 11 followed.

12

13 **3. Switching Capability**

14 Q. WHAT SWITCHING CAPABILITY SHOULD BE UNBUNDLED?

15 A. Switching capability unbundling is defined in the FCC Rules by two
 16 distinct switch functions: local switching and tandem switching.

17

18 *a. Local Switching*

19 Q. WHAT IS LOCAL SWITCHING AND HOW SHOULD IT BE PROVISIONED?

20 A. In Section 51.319(c)(1)(i) of the FCC Rules, the local switching capability
 21 network element is defined as:

22 (A) line-side facilities, which include but are not limited to,
 23 the connection between a loop termination at a main
 24 distribution frame and a switch line card;

25 (B) trunk-side facilities, which include but are not limited to,

1 the connection between trunk termination at a trunk-side
2 cross-connect panel and a switch trunk card; and
3 (C) all features, functions, and capabilities of the switch,
4 which include, but are not limited to:

5 (1) the basic switching function of connecting lines
6 to lines, lines to trunks, trunks to lines, and trunks to
7 trunks, as well as the same basic capabilities made available
8 to the incumbent LEC's customers, such as a telephone
9 number, white page listing, and dial tone; and

10 (2) all other features that the switch is capable of
11 providing, including but not limited to custom calling,
12 custom local area signaling service features, and Centrex,
13 as well as any technically feasible customized routing
14 functions provided by the switch.

15 In this context, features, functions, and capabilities includes: i) all
16 basic switching functions, ii) telephone numbers, iii) directory listing, iv)
17 dial tone, v) signaling, and vi) access to directory assistance, vii) access
18 to operator services, viii) access to 911, ix) all vertical features the
19 switch is capable of providing; and x) any customized call routing
20 features.

21 Access to local switching is at the ILEC end office. There are two
22 points of access: the main distribution frame (or equivalent) and the
23 trunk-side cross-connect. ILEC switching may be connected to MCI-
24 provided loops, MCI-provided transport facilities, ILEC-provided loops,
25 ILEC-provided transport facilities, or loops or transport facilities provided

1 by a third party. MCI will require the ILEC to connect these elements as
2 described above in "Connecting Unbundled Elements."

3

4 Q. WHO SHOULD DETERMINE HOW CALLS PLACED BY MCI CUSTOMERS
5 ARE ROUTED?

6 A. MCI will be responsible for establishing how its customers calls will
7 route, and for specifying in advance a trunking scheme to make such
8 routing possible. Such trunking will be either supplied by MCI, or will be
9 comprised of other unbundled network transport elements (dedicated or
10 shared), or a combination of the two. The ILEC must make available to
11 MCI any switch-supported trunk interface for the provision of network
12 trunking, including SMDI interfaces for MCI-supplied voice mail services.
13 Customer specific routing will be implemented via line class codes or
14 equivalent switch-specific methods. Such routing will allow MCI to
15 designate routing for that customer's service, for each of the following
16 call types:

- 17 • 0 + /0- calls
- 18 • 911 calls
- 19 • 411/DA calls
- 20 • InterLATA calls specific to PIC or regardless of PIC
- 21 • IntraLATA calls specific to PIC or regardless of PIC
- 22 • 800/888 calls, prior to database query
- 23 • Call forwarding of any type supported on the switch, to a
24 line or a trunk
- 25 • Any other customized routing that may be supported by the

1 ILEC switch

2

3 On the line side, MCI must be able to purchase any line service
4 available on the switch, including but not limited to POTS services,
5 Centrex services, and ISDN BRI services, with all of their vertical features
6 and signaling options. On the trunk side, MCI must be able to purchase
7 any customer trunk service available on the switch, including but not
8 limited to DID, DOD, 2-way, and ISDN PRI trunk services.

9

10 *b. Tandem switching*

11 Q. WHAT IS TANDEM SWITCHING AND HOW SHOULD IT BE
12 PROVISIONED?

13 A. The tandem switching capability network element is defined by the FCC
14 as:

15 (1) trunk connect facilities, including but not limited to the
16 connection between trunk termination at a cross-connect panel and a
17 switch trunk card;

18 (2) the basic switching function of connecting trunks to trunks;
19 and

20 (3) the functions that are centralized in tandem switches (as
21 distinguished from separate end-office switches), including but not limited
22 to call recording, the routing of calls to operator services, and signaling
23 conversion features.

24 This unbundled element is necessary to be able to perform a
25 variety of functions including transit functions. The transit function is

1 critical for new entrants to efficiently interconnect with other CLECs,
2 IXCs and small independent carriers that home off the ILEC tandem.
3 Until traffic levels justify the direct connection of these carriers, the ILEC
4 tandem is the only method to interconnect all carriers in a market. (See
5 also the FCC Order at paragraph 425)

6 MCI should be able to gain access to this unbundled element at
7 the tandem switch location. Access will always be at a trunk cross-
8 connect device serving the tandem switch. This cross-connect point will
9 be connected to other unbundled elements, third party networks or MCI's
10 collocation as described in "Connecting Unbundled Elements."

11

12 **4. Interoffice Transmission Facilities**

13 Q. WHAT ARE INTEROFFICE TRANSMISSION FACILITIES AND HOW
14 SHOULD THEY BE PROVISIONED?

15 A. The FCC defines interoffice transmission facilities "as incumbent LEC
16 transmission facilities dedicated to a particular customer or carrier, or
17 shared by more than one customer or carrier, that provide
18 telecommunications between wire centers owned by incumbent LECs or
19 requesting telecommunications carriers, or between switches owned by
20 incumbent LECs or requesting telecommunication carriers." Interoffice
21 transmission facilities are customarily defined as either shared facilities or
22 dedicated facilities.

23 The shared interoffice transmission is the path between end
24 offices and a tandem, or between end offices, that is shared by multiple
25 carriers. This element is necessary to connect the tandem switching

1 function to the local switching function. (See FCC Order at paragraph
2 441) In addition, MCI will purchase the shared transport element
3 between ILEC end offices in conjunction with the purchase of the
4 unbundled local switching element.

5 MCI will gain access to the shared interoffice transport facilities at
6 the trunk cross-connect at the end office and/or the trunk cross connect
7 at the tandem switch. This cross-connect point will be connected to
8 other unbundled elements, third party networks or MCI's collocation as
9 described in "Connecting Unbundled Elements."

10 Dedicated transmission facilities are transport facilities used
11 exclusively for the requesting carrier's traffic and connect one or more of
12 the following points: ILEC end offices, ILEC tandems, ILEC serving wire
13 centers, other carrier wire centers or switching centers, IXC points of
14 presence, collocated equipment at any ILEC end or tandem office. Such
15 facilities shall be all technically feasible transmission capabilities,
16 including but not limited to: DS0, DS1, DS3, and all optical levels.

17

18 Q. SHOULD MCI BE PROVIDED ACCESS TO DARK FIBER AS AN
19 UNBUNDLED ELEMENT?

20 A. Although the FCC did not specifically require that the ILECs make
21 available unbundled optical fiber or "dark fiber," MCI contends that
22 dedicated transport must also include dark fiber, which from an
23 engineering perspective is simply another level in the transmission
24 hierarchy. Because network construction for the initial placement of
25 fiber facilities is timely and costly since it involves permits, road work,

1 conduit placement, etc., telecommunications carriers typically install large
2 quantities of fiber cables. Therefore, we believe that many of the ILECs
3 have the dark fiber available where they have upgraded their facilities
4 from copper plant and should be required to provide plant records to
5 detail where excess capacity exists.

6 Dark fiber is necessary for MCI to expand its network reach with
7 the flexibility of installing electronics that comport to its network
8 architecture. This flexibility is essential for MCI to strategically deploy
9 efficient new technologies into its network. Without this network
10 element, MCI's only choices are to undertake the timely and expensive
11 construction effort to place its own fiber in the ground or to purchase the
12 use of "lit" (fiber with electronics) transport services from the ILEC. It
13 does not make sense to require MCI to purchase the use of ILEC
14 electronics where spare fiber capacity is available; in fact, using the
15 ILEC's existing electronic technology forces MCI to be held captive to the
16 ILEC's network technology and design rather than being allowed to
17 deploy new, more efficient technologies that are consistent across
18 geographic locations.

19 MCI and other carriers should be able to request availability of dark
20 fiber on a particular route. The ILEC should respond to that request
21 within 10 days on availability on that route or comparative alternative
22 route and specify all available splice points and specifications of the fiber
23 optic plant. If the fiber is available, MCI will meet the ILEC at its
24 specified splice points (usually in a manhole) with its own fibers. MCI
25 will then deploy its own electronics at its network sites.

1 Q. WHAT ARE DIGITAL CROSS-CONNECT SYSTEMS, AND HOW SHOULD
2 THEY BE PROVIDED?

3 A. The FCC Order, at paragraph 444, requires that ILECs provide requesting
4 carriers access to digital cross connect system functionality. They
5 describe the DCS as a device that "aggregates and disaggregates" high-
6 speed traffic. In general, the DCS provides for transmission level
7 changes within a transport route, or where two transport routes meet.
8 Aside from providing electronic software controlled multiplexing of
9 facilities at different transmission levels, DCS also provides automated
10 cross connection of transmission facilities at like levels, for the purposes
11 of "grooming" facilities to optimize network efficiency. Types of DCSs
12 include but are not limited to DCS 1/0s, DCS 3/1s, and DCS 3/3s, where
13 the nomenclature 1/0 denotes interfaces typically at the DS1 rate or
14 greater with cross-connection typically at the DS0 rate. This same
15 nomenclature, at the appropriate rate substitution, extends to the other
16 types of DCSs specifically cited as 3/1 and 3/3. Types of DCSs that
17 cross-connect Synchronous Transport Signal level 1 (STS-1s) or other
18 Synchronous Optical Network (SONET) signals (for example, STS-3) are
19 also DCSs, although not denoted by this same type of nomenclature.
20 DCS may provide the functionality of more than one of the
21 aforementioned DCS types (for example, DCS 3/3/1 which combines
22 functionality of DCS 3/3 and DCS 3/1).

23 Devices that provide similar aggregation and disaggregation
24 functions via manual cross-connections are generally referred to as
25 "multiplexors." Because of their functional similarity to the DCS, we

1 interpret the FCC's DCS directive to include multiplexors such as M13s
2 and channel banks.

3 ILECs routinely provide both DCS (including multiplexor) functions
4 today to interexchange carriers in conjunction with dedicated transport
5 services. MCI agrees that DCS supports transport services, but also
6 requests that the ILEC be required to provide this function in combination
7 with dedicated transport or separately so MCI can combine DCS with its
8 own transport or that supplied by other parties.

9 MCI will gain access to the digital cross-connection system at the
10 appropriate (optical, DS3, DS1, voice grade level) cross-connection
11 device serving the DCS. This cross-connect point will be connected to
12 other unbundled elements, third party networks or MCI's collocation as
13 described in "Connecting Unbundled Elements."

14

15 **5. Signaling Networks, Call-Related Databases, and Service**
16 **Management Systems**

17 *a. Signaling Systems*

18 Q. WHAT ARE UNBUNDLED SIGNALING SYSTEMS AND HOW SHOULD
19 SIGNALLING NETWORKS BE INTERCONNECTED?

20 A. As explained in the FCC Order, signaling systems "facilitate the routing of
21 telephone calls between switches SS7 networks use signaling links to
22 transmit routing messages between switch, and between switches and
23 call-related databases." (at paragraphs, 455, 456) The Order goes on to
24 state that "incumbent LECs are required to accept and provide signaling
25 in accordance with the exchange of traffic between interconnecting

1 networks." It concludes that "the exchange of signaling information may
2 occur through an STP to STP interconnection." (at paragraph, 478)

3 The FCC also identifies a need for the ILECs to offer unbundled
4 access to their STP and signaling link elements. (Order at Paragraph
5 479) MCI concurs that such access is required on non-discriminatory
6 terms and conditions. However, it is clear from the ensuing discussion in
7 paragraphs 479 - 483 that access to unbundled signaling links and STP
8 ports is intended to allow new entrants to obtain signaling services from
9 the ILEC. This eliminates the CLEC's burden of installing their own
10 signaling networks. This requirement is clearly distinct from the
11 requirement to connect signaling networks for support of traffic exchange
12 as described in the previous paragraph of this paper.

13 Interconnection of the signaling networks facilitates routing of
14 telephone calls flowing from the ILEC to the CLEC and from the CLEC to
15 the ILEC. It also is required for the provision of certain CLASS services
16 such as caller ID, automated callback, and automated recall, as well as
17 the transmission of 64 kbps ("clear channel") calls flowing in both
18 directions. Thus, the connecting carriers must share the burden of
19 signaling network interconnection in support of traffic exchange.

20 MCI proposes that this be accomplished as follows:

- 21 • In each LATA, there will be two signaling points of
22 interconnection (SPOIs). The requirement for two SPOIs is
23 driven by the critical importance attached by all parties to
24 signaling link diversity.
- 25 • Each party will designate one of the two SPOIs in the

1 LATA. A SPOI can be any existing cross-connect point in
2 the LATA. Since each party will designate a SPOI, we
3 believe that both parties will be incented to select
4 reasonable and efficient SPOI locations.

- 5 • Each signaling link requires a port on each party's STP. We
6 propose that each party provide the necessary ports on its
7 STPs without explicit charge.

8 The SS7 interconnection shall provide connectivity to all
9 components and capabilities of the ILEC SS7 network. These include:

- 10 • ISDN Services User Part (ISUP) signaling for calls between
11 MCI and ILEC switches
- 12 • ISUP signaling for calls between MCI and other networks
13 that transit through the ILEC switched network.
- 14 • Translations Capability Applications Part (TCAP) messaging
15 in support of querying SCP-housed databases, and TCAP
16 messaging in support of CLASS services

17

18 *b. Call Related Databases*

19 Q. WHAT ARE CALL RELATED DATABASES AND WHY ARE THEY
20 IMPORTANT?

21 A. As defined by the FCC, call related databases are databases, other than
22 operations support systems, that are used in signaling networks for billing
23 and collection or the transmission, routing, or other provision of a
24 telecommunications service. An incumbent LEC shall provide access to
25 its call-related databases, including, but not limited to, the Line

1 Information database, Toll Free Calling database, downstream number
2 portability databases, and Advanced Intelligent Network databases, by
3 means of physical access at the signaling transfer point linked to the
4 unbundled database.

5 Access to Call-Related databases provides for the centralized
6 intelligence that governs the disposition of calls. Additionally, service
7 control points (SCPs) serve as the means by which subscriber and service
8 application data is provided, and maintained. The databases provide, in
9 response to an SS7 inquiry, the information necessary to provide a
10 service or deliver a capability.

11 For MCI to be able to gain access to call-related databases, the
12 following requirements must be met:

- 13 • The ILEC must provide MCI billing and recording information to
14 track database usage.

15

16 *Specific to LIDB:*

- 17 • The ILEC must enable MCI to store in the ILEC's LIDB any
18 customer line number or special billing number record, whether
19 ported or not, for which the NPA-NXX is supported by that LIDB.

20

- 21 • The ILEC must perform the following LIDB functions for MCI's
22 customer records:
23 - billing number screening
24 - calling card validation
25 - data screening function

1 ***Specific to LNP Database:***

- 2 • The ILEC LNP SCP must return to the MCI switch:
- 3 - appropriate routing for ported numbers
- 4 - industry specified indication for non-ported numbers, and
- 5 - industry specified indication for non-ported NPA-NXX
- 6

7 ***Specific to AIN Applications:***

- 8 • The ILEC must provide MCI with descriptive and detailed technical
- 9 information regarding each of the ILEC's AIN applications housed
- 10 in its AIN SCPs.
- 11
- 12 • The ILEC must routinely provide MCI with information regarding
- 13 database and application capacity available on each of its AIN
- 14 SCPs.
- 15
- 16 • The ILEC must allow MCI to gain access to another party's
- 17 applications housed in the ILEC AIN SCPs, assuming that MCI has
- 18 gained written notification from that third party permitting MCI to
- 19 make use of its applications.
- 20

21 ***c. Service Management Systems***

22 Q. WHAT ARE SERVICE MANAGEMENT SYSTEMS AND HOW SHOULD

23 THEY BE PROVISIONED?

24 A. The FCC defines Service Management Systems as computer databases or

25 systems not part of the public switched network that, among other

1 things, interconnect to the service control point and send to that service
2 control point the information and call processing instructions needed for a
3 network switch to process and complete a call, and provide a
4 telecommunication carrier with the capability of entering and storing data
5 regarding the processing and completing of a call.

6 The FCC ordered that the ILEC make its SMS and AIN Service
7 Creation Environment available to CLECs for creation and downloading of
8 AIN applications, on a non-discriminatory basis. (Paragraph 493) It is
9 MCI's belief that, in order for this requirement to be met:

- 10 • The ILEC must make SCE hardware, software, testing, and
11 technical support resources available to MCI in a similar fashion to
12 how they make such resources available to themselves.
- 13 • The ILEC must partition its SCP so as to protect MCI's service
14 logic and data from unauthorized access or execution.
- 15 • The ILEC must provide training and documentation to MCI at parity
16 with that provided to itself.
- 17 • The ILEC must provide MCI secure LAN/WAN and dial-up remote
18 access to its SCE/SMS.
- 19 • The ILEC must allow MCI to create applications and download data
20 without ILEC intervention.

21 The Operations Support Systems Functions and Operator Services
22 Directory Assistance are addressed in the testimony of Don Price.

23

24 ***C. Additional Unbundled Elements***

25 Q. WHAT ADDITIONAL UNBUNDLED ELEMENTS SHOULD THE

1 COMMISSION ORDER GTEFL TO PROVIDE?

2 A. MCI requests the Florida Commission to immediately order at least one
3 additional unbundled element beyond the FCC minimum set: Loop
4 Distribution. This element, described below, meets the guidelines
5 detailed in the FCC rules that give the state authority to order additional
6 elements. MCI plans to pursue further unbundled network elements in the
7 future that include, but are not limited to: additional AIN (advanced
8 intelligent network) unbundling, data switching, and further unbundling of
9 the local loop.

10

11 1. AIN

12 Q. WHY IS NONDISCRIMINATORY ACCESS TO AIN CAPABILITY
13 IMPORTANT?

14 A. The elimination of all discriminatory access to AIN capability will become
15 increasingly important as more and more innovative new services depend
16 on that capability. MCI expects to be introducing such services within a
17 year, and to be able to move forward with our plans we must have
18 appropriate access to the capability. In particular, in order to provide
19 new services that are consistent across geographic locations and make
20 the most creative use of MCI's existing intelligent network platforms, we
21 believe that it is extremely important the state commissions order the
22 ILECs to interconnect their signaling systems to MCI
23 applications/databases housed in MCI AIN SCPs. The FCC noted that the
24 record on the technical feasibility of such interconnection was not clear,
25 and encouraged state commissions to consider this issue. (Order at

1 paragraph 502) MCI believes that such interconnection is technically
2 feasible, and plans to present detailed testimony on this issue, and to
3 propose appropriate industry trials, in several states that have been at the
4 forefront of Local Number Portability implementation. We then plan to use
5 the results of those proceedings to extend the interconnection practice to
6 other states via the BFR process. The BFR process is discussed fully in
7 the testimony of Mr. Price.

8

9 **2. Loop Distribution**

10 *a. Definition*

11 Q. PLEASE DEFINE THE LOOP DISTRIBUTION THAT MCI WANTS THE
12 COMMISSION TO REQUIRE GTEFL TO UNBUNDLE AT THIS TIME.

13 A. Loop Distribution is the portion of the loop from the network interface
14 device at the customer premise to the feeder distribution interface. Per
15 Bellcore specifications, there are three basic types of feeder-distribution
16 connection: i) multiple (splicing of multiple distribution pairs onto one
17 feeder pair); ii) dedicated ("home run"); and iii) interfaced ("cross-
18 connected"). While older plant uses multiple and dedicated approaches,
19 newer plant and all plant that uses DLC or other pair-gain technology
20 necessarily uses the interfaced approach. The feeder-distribution
21 interface (FDI) in the interfaced design makes use of a manual cross-
22 connection, typically housed inside an outside plant device ("green box")
23 or in a vault or manhole.

24

25 *b. The need for unbundled loop distribution plant*

1 Q. WHY DOES MCI NEED UNBUNDLED LOOP DISTRIBUTION PLANT?

2 A. Loop distribution is necessary to give MCI flexibility in deploying loop
3 facilities by permitting MCI to use its own loop feeder plant where
4 available. (See FCC Order at paragraph 390) Lack of loop distribution
5 will impair MCI's ability to provide local service because it will increase
6 MCI's costs unnecessarily in those instances where it does not require
7 the ILEC's loop feeder plant, but nonetheless requires the ILEC's
8 distribution plant. As MCI and other CLECs expand their facilities-based,
9 efficient SONET networks, they may be located very near an FDI and only
10 require the loop distribution to reach multiple customer premises.
11 However, without this sub-loop element available for purchase, CLECs
12 will be forced to purchase the whole loop, even though they have their
13 own facilities that could be used for a portion of the loop. MCI does not
14 want to have to purchase functional elements in the ILEC's networks that
15 it can efficiently provide itself using new technologies. Thus, an
16 appropriate level of granularity is required for the unbundled local loop so
17 CLECs can make a rational lease vs. build decision in smaller increments.
18 Without this sub-loop element, competitive carriers will be forced to build
19 full loops to multiple customer premises on a speculative basis (which is
20 timely and costly) rather than economically and efficiently replace
21 portions of the leased network with constructed facilities. Replacing the
22 feeder portion of the loop is the most efficient method for CLECs to
23 evolve to a facilities based carriers.

24

25

c. Access to loop distribution

1 Q. HOW SHOULD ACCESS TO UNBUNDLED LOOP DISTRIBUTION BE
2 PROVIDED?

3 A. Access to loop distribution is technically feasible in general for feeder
4 distribution connections in the interface design. The ILEC can make
5 available connecting block capacity within its Interfaced FDI for
6 connection of MCI's copper feeder facilities. This can either be capacity
7 within its terminal block or an additional terminal block. MCI will require
8 an interval of 30 days to make a FDI ready for provisioning. These make-
9 ready activities include:

- 10 • Review of available capacity and other engineering issues and
11 confirmation of committed make-ready date (5 days after order).
- 12 • Interval of 5 days from request for make ready to delivery of a
13 make-ready firm order commitment (FOC).
- 14 • Physical preparation of the FDI, including making available feeder
15 block capacity through block expansion, addition of an additional
16 block, or removal of unneeded ILEC feeder facilities, and
17 preparation of the FDI for entrance of MCI's feeder cable.
- 18 • Delivery of feeder block designation and assignments to MCI.
- 19 • Testing the installation of MCI's feeder cables through the feeder
20 block via cooperatively developed loopback tests.

21 MCI's responsibilities will include delivery of copper feeder cable to
22 the ILEC designated manhole or other interface point serving the FDI,
23 with enough spare cable to extend from the interface point to the FDI.
24 MCI may elect to include spare copper pairs in the cable for repair and
25 growth.

1 Once in place, MCI will order distribution elements to all addresses
2 served by the FDI on a customer order basis. MCI will be responsible for
3 selecting the feeder cable assignment within the order. The ILEC will be
4 responsible for manually cross-connecting the appropriate distribution
5 cable to MCI's selected feeder and cooperatively testing service between
6 the customer demarcation point and MCI's selected feeder termination
7 point. The standard interval for this activity should be two business days.

8 Feeder/Distribution unbundling in situations where the ILEC has
9 deployed Multiple or Dedicated designs, as well as unbundled purchase of
10 Loop Electronics and Loop Feeder, will be requested via a bona fide
11 request process.

12

13 **COLLOCATION**

14 Q. WHAT ARE THE ARRANGEMENTS WHICH MUST BE IN PLACE FOR
15 COLLOCATION TO BE VIABLE?

16 A. The terms and conditions for collocation for interconnection and access
17 to unbundled network elements are different -- broader -- than those that
18 were needed in the past for competitive access providers. As of today,
19 the terms and conditions surrounding collocation serve as a barrier to
20 enable competitive entry. The FCC has recognized this and has taken
21 four corrective measures. We urge this Commission to ensure proper
22 procedures are put in place to make collocation viable:

23

24 1. **Ability to collocate subscriber loop electronics, such as Digital**
25 **Loop Carrier, in the Central Office.** The current collocation rules, terms

1 and conditions that only allow the placement of basic transmission
2 equipment in the Central Office were not designed with access to
3 unbundled elements in mind, and give the ILEC a de facto bottleneck veto
4 on CLEC network design plans. (Order at paragraph 580)

5

6 **2. Ability to purchase unbundled dedicated transport to the**
7 **collocation facility**, rather than physically construct from the
8 CLECs network to the ILEC Central Office. (Order at paragraph
9 590)

10

11 **3. Ability to interconnect with other collocators in the same**
12 **Central Office.** This ability is necessary to allow the expedient and
13 economic interconnection of CLECs networks for the exchange of
14 local traffic or for the use of one another's facilities via negotiated
15 business arrangements. (Order at paragraph 594)

16

17 **4. Ability to collocate via physical or virtual facilities.** (Order at
18 paragraph 565)

19

20 As mentioned earlier in my testimony, MCI has experienced
21 unacceptably long intervals in establishing collocations. Because
22 collocation is such a fundamental requirement for competitive
23 entry, we request this Commission to mandate a maximum three
24 month interval for physical and a two month interval for virtual
25 collocations.

25

1 Q. DOES THIS CONCLUDE YOUR TESTIMONY?

2 A. Yes.

3

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1 REBUTTAL TESTIMONY OF PAUL R. POWERS

2 ON BEHALF OF MCI

3 DOCKET NO. 960980-TP

4 September 30, 1996

5

6 Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.

7 A. My name is Paul R. Powers and my business address is 8521 Leesburg
8 Pike, Vienna Virginia.

9

10 Q. HAVE YOU PREVIOUSLY FILED TESTIMONY IN THIS PROCEEDING?

11 A. Yes, I have previously adopted the direct testimony filed by Drew
12 Caplan in this docket on August 26, 1996.

13

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

15 A. The purpose of my rebuttal testimony is respond to the testimony of
16 Mr. Ries regarding GTE's proposed restrictions on collocation, to
17 respond to Mr. Wood's testimony on various unbundling issues, and to
18 respond to Mr. DellAngello's proposal for AIN unbundling.

19

20 Q. AT PAGES 7-8 AND 12-16 OF HIS TESTIMONY, MR. RIES STATES
21 THAT ALECS SHOULD NOT BE PERMITTED TO PLACE ANY AND ALL
22 KINDS OF EQUIPMENT IN COLLOCATED SPACE. WHAT IS MCI'S
23 POSITION ON THE TYPE OF EQUIPMENT WHICH SHOULD BE
24 PERMITTED IN COLLOCATED SPACE?

25 A. Throughout his testimony, Mr. Ries seems to focus merely on

1 equipment which might be needed for interconnection. For example, at
2 page 17, he criticizes AT&T for asking for more than what might be
3 required for interconnection. While interconnection is clearly a critical
4 issue, access to unbundled loops is also important for a fair competitive
5 environment. At a minimum, MCI should be permitted to place in
6 collocated space any equipment that is needed to allow MCI to
7 efficiently access unbundled elements. GTE argues that only
8 equipment that is technically necessary to provide basic transmission
9 service, such as circuit termination equipment, should be permitted. If
10 this were the case, MCI would not be able to access unbundled
11 elements in an efficient and effective manner.

12

13 One item in particular that it is critical for MCI to be able to place in
14 collocated space is Digital Line Concentrator (DLC). The DLC allows
15 MCI to concentrate loops and build its network in the most efficient
16 manner possible. For example, with a DLC MCI would be able to
17 transport to its switch from the GTE central office the equivalent of
18 672 unbundled loops over as few as 4 T-1s. Without such
19 concentration capability, MCI network costs will be significantly
20 increased. In addition, the DLC allows MCI to create a compatible
21 interface to its switches to support unique MCI products and services.

22

23 GTE's position that only such equipment that is necessary to provide
24 basic transmission service should be allowed would force MCI to build
25 an inefficient network, thereby increasing costs to consumers. In

1 addition, MCI's ability to create innovative products and services would
2 also be impaired.

3

4 Q. AT PAGES 14-15 OF HIS TESTIMONY MR. RIES STATES THAT IT
5 WOULD BE HARMFUL IF ALECS WERE ABLE TO PLACE ANY
6 EQUIPMENT THEY WANTED IN COLLOCATED SPACE BECAUSE ONE
7 COMPETITOR MIGHT COME IN AND USE UP ALL THE SPACE. HAVE
8 ANY OF THE ILECS WITH WHOM MCI IS SEEKING TO COLLOCATE
9 ESTABLISHED POLICIES WHICH RESPOND TO THIS CONCERN? IF
10 SO, PLEASE DESCRIBE THE POLICIES.

11 A. Both NYNEX and Pacific Bell have considered this issue and have
12 established policies which MCI believes are a good faith attempt to
13 bring fairness to this process. These RBOCs have assessed space
14 availability and have adopted a general policy that any ALEC seeking to
15 collocate can lease up to 400 square feet of space in a central office.
16 The ALEC cannot warehouse the space. That means the ALEC must
17 within a reasonable time place within the space equipment used to
18 provide service. The space cannot be used simply for storage. An
19 ALEC can request additional space, and such requests will be assessed
20 on a case by case basis. GTE's bald assertion that harm will occur
21 because a single ALEC might come in and use up all the space is thus
22 totally without merit. As reflected in the NYNEX and Pacific Bell
23 policies, steps can be taken to prevent this alleged "harm" from
24 occurring.

25

1 On reading Mr. Ries' testimony it appears that GTE is trying to position
2 itself as wearing a white hat by expressing concern about one ALEC
3 taking advantage of another. If GTE wanted to create a fair
4 competitive environment, then it would have focused its energies on
5 creating a policy to create a level playing field, rather than simply
6 saying the sky is falling.

7

8 Q. AT PAGES 8 AND 17-19 OF HIS TESTIMONY MR. RIES STATES THAT
9 ALECS SHOULD ONLY BE ABLE TO COLLOCATE AT CENTRAL
10 OFFICES, SERVING WIRE CENTERS, TANDEM SWITCHES. HE GOES
11 ON TO STATE THAT COLLOCATION SHOULD BE PERMITTED AT
12 REMOTE UNITS ONLY IF A GIVEN UNIT OFFERS ROUTING OR RATING
13 CAPABILITY. ARE THERE ANY PLACES WHERE COLLOCATION
14 SHOULD NOT BE ALLOWED?

15 A. Collocation is appropriate in whatever GTE structures have network
16 facilities, subject only to real space limitations and to a requirement
17 that each party bear its own costs to collocate. The determination as
18 to whether space is available should be made on a case-by-case basis.
19 The Commission should not establish a general rule restricting
20 collocation based on a naked statement that certain structures usually
21 have limited space available. In addition, the fact that certain functions
22 may or may not be performed at a facility is not relevant. To be
23 competitive, MCI must be able to design its network as efficiently as
24 possible. Collocation should thus be restricted only where there is a
25 real issue as to space availability, and the Commission should not allow

1 GTE to limit collocation simply because a particular network function
2 may or may exist at the location.

3

4 Q. AT PAGES 9 AND 20-21 MR. RIES CONTENDS THAT ALECS SHOULD
5 NOT BE GIVEN THE OPTION TO DEMAND VIRTUAL COLLOCATION
6 UNLESS THERE IS FIRST A FINDING THAT PHYSICAL COLLOCATION
7 IS NOT FEASIBLE. WHAT IS WRONG WITH THIS APPROACH?

8 A. Mr. Ries spends most of his testimony focused on the alleged pitfalls of
9 physical collocation. He argues repeatedly for limitations on physical
10 collocation -- where, what and how. For Mr. Ries then to argue that
11 virtual collocation should only be allowed where physical collocation is
12 not feasible is totally disingenuous. Like many of the other ILECs, GTE
13 opposed physical collocation in the regulatory arena for years, asserting
14 that virtual collocation was adequate. At times there may be situations
15 where MCI wants to physically collocate with GTE. At other times MCI
16 may want to make use of virtual collocation. There is absolutely no
17 reason for GTE to suggest that an ALEC must exhaust one approach
18 before the other is available, other than to slow market entry of the
19 ALECs.

20

21 Q. AT PAGES 9 AND 21 MR. RIES TALKS ABOUT THE NEED FOR GTE
22 TO HAVE THE RIGHT TO IMPLEMENT REASONABLE SAFETY AND
23 SECURITY MEASURES WHEN COLLOCATION IS ESTABLISHED.
24 WHAT IS MCI'S POSITION ON SAFETY AND SECURITY MEASURES?

25 A. MCI does not object in principle to allowing GTE to take "reasonable"

1 safety and security measures. However MCI believes GTE must bear
2 the costs of such measures, since GTE in all likelihood will unilaterally
3 determine what actions are allegedly necessary to insure safety and
4 security. In addition, the Commission should insure that no steps are
5 taken by GTE in the name of protecting its network which
6 unreasonably use central office or other space that might otherwise be
7 available for collocation.

8

9 Q. AT PAGES 10-11 AND 22-23 OF HIS TESTIMONY MR. RIES
10 CONTENDS THAT GTE SHOULD NOT BE REQUIRED TO ALLOW
11 COLLOCATORS HOUSED ON GTE PROPERTY TO CROSS-CONNECT
12 WITH EACH OTHER IN ORDER TO BYPASS THE GTE NETWORK. HE
13 GOES ON TO STATE THAT PENDING JUDICIAL REVIEW OF THE FCC
14 ORDER GTE WILL PERMIT SUCH CROSS-CONNECTION IF CERTAIN
15 CONDITIONS ARE MET. ARE THE CONDITIONS SET FORTH BY MR.
16 RIES REASONABLE?

17 A. No, they are not, except that MCI of course would pay for costs it
18 incurs in connection with such cross-connects. It appears that what
19 GTE is attempting to do with these conditions is to prohibit such
20 cross-connections and to prevent new entrants from developing
21 networks in the most efficient and effective manner possible. GTE
22 states such cross-connections will be at its option, and will only be
23 allowed when the connected equipment is used for interconnection
24 with GTE or access to GTE's unbundled network space.
25 Cross-connections between ALECs is in the best interests of

1 competition, and an ILEC such as GTE should not be given the option
2 to prevent this activity from occurring, nor be permitted to prohibit an
3 ALEC from using collocated facilities for purposes other than access to
4 GTE as long as the ALEC is purchasing GTE services. Moreover the
5 FCC order specifically authorizes such interconnection.

6

7 Q. AT PAGES 14-15 AND 17 OF HIS TESTIMONY MR. WOOD
8 DESCRIBES GTE'S POSITION RELATIVE TO ALEC CONNECTION TO
9 THE GTE NID. IS MCI REQUESTING DIRECT CONNECTION TO THE
10 GTE NID?

11 A. Mr. Wood states that although the FCC does not require it, GTE will
12 allow an ALEC to connect its loops directly to GTE's NID, provided that
13 such interconnection does not adversely affect GTE's network. This
14 offer sounds generous until one realizes that to gain the direct NID
15 connection one must establish that such connection will not adversely
16 affect GTE's network. Mr. Wood does not state how this
17 determination is to be made or whether it is to be made on a NID by
18 NID basis. As a result, MCI will not seek to connect its loops directly
19 to the GTE NID. Instead, MCI will connect its NID to the GTE NID,
20 thereby avoiding an endless discourse about possible adverse impacts
21 to GTE's network that would only serve to delay market entry.

22

23 Q. AT PAGES 15 AND 18-24 OF HIS TESTIMONY MR. WOOD STATES
24 THAT SUBLOOP UNBUNDLING (I.E., THE SEPARATION OF THE LOOP
25 INTO DISTRIBUTION, FEEDER AND LOOP CONCENTRATOR/

1 MULTIPLEXER) SHOULD BE DETERMINED ON A CASE BY CASE. MR.
2 WOOD PLACES SIGNIFICANCE ON THE FACT THAT THERE ARE NOT
3 PHYSICAL CONNECTIONS AT ALL LOCATIONS WHERE SUBLOOP
4 UNBUNDLING MIGHT OCCUR AND HE CAUTIONS ABOUT POSSIBLE
5 HARMS THAT MIGHT ARISE IF MULTIPLE PARTIES WERE ALLOWED
6 ACCESS TO GTE CROSS CONNECTION LOCATIONS. WHAT IS MCI
7 SEEKING RELATIVE TO SUBLOOP UNBUNDLING?

8 A. MCI is asking for subloop unbundling where there is an existing
9 cross-connect in the ILEC network. MCI is not at this time requesting
10 subloop unbundling where there is not an existing cross-connect in the
11 ILEC network. While MCI might at a later date submit a bona fide
12 request (BFR) for such unbundling, MCI can enter the market now if it
13 can obtain subloop unbundling where there is a an existing
14 cross-connect. In addition, MCI is not demanding that it have access
15 to the GTE cross-connect location. MCI will allow GTE to perform
16 activities at the cross-connect location on its behalf. Given this
17 approach, the concerns raised by Mr. Wood are not relevant to MCI.
18 There is one other point worth noting. Mr. Wood suggests that
19 subloop unbundling should be determined on a case-by-case basis.
20 Any time case-by-case decisions are made there are delays. It is
21 critical for the Commission to establish rules that provide a clear path
22 forward and that eliminate ongoing opportunities for the ILECs to stall
23 competitive entry.

24
25 Q. AT PAGES 15-16 AND 24 TO 28 MR. WOOD DISCUSSES GTE'S

1 POSITION ON SWITCH UNBUNDLING. HE RAISES ISSUES RELATIVE
2 TO COST, TECHNICAL FEASIBILITY, CAPACITY CONSTRAINTS AND
3 LOST REVENUES. WHAT IS THE BOTTOM LINE OF HIS TESTIMONY?

4 A. Mr. Wood's testimony is most interesting. He goes on for several
5 pages stating why switch unbundling should not be required.
6 However, despite all the concerns raised, he makes the offer at page
7 17 to unbundle the switch so long as GTE recovers its costs and does
8 not lose access charge revenues. It seems that despite all the
9 protestations as to what is and is not feasible, capacity constraints,
10 etc., GTE's position comes down to one of money. GTE and other
11 ILECs made extensive arguments at the FCC on the issue of unbundled
12 switching and the FCC found that it was technically feasible to provide
13 access to the local switching element in the ILEC central office. (FCC
14 Order, paragraph 415) The FCC expressly ordered unbundling of the
15 local switching element and tandem switching. (FCC Rules, Section
16 51.319(c)) Thus while Mr. Wood recites the litany of technical
17 feasibility arguments, I believe his real concern is money. The
18 Commission should therefore order that switching must be unbundled,
19 and should set a price for unbundled switching in accordance with the
20 FCC's rules.

21

22 Q. IN HIS DISCUSSION ON SWITCH UNBUNDLING AT PAGES 16 AND
23 24-25, MR. WOOD DISCUSSES PROBLEMS ASSOCIATED WITH
24 SELECTIVE CALL ROUTING. IN PARTICULAR HE RAISES THE
25 CONCERN OF LINE CLASS CODE EXHAUST. HOW WOULD MCI

1 PROPOSE TO DEAL WITH THIS CONCERN?

2 A. MCI as a purchaser of switches for its own network often works with
3 its switch suppliers to enhance switch features and functions. To the
4 extent that line class code exhaust or other issues such as those raised
5 in the letter attached to Mr. Wood's testimony as Exhibit No. AEW-4
6 exist, MCI believes the appropriate course of action is for GTE to
7 proactively work with its switch vendors to find solutions to the alleged
8 problems raised. These types of concerns, real or imagined, can be
9 resolved through the vendor and supplier working together. In fact,
10 GTE as a provider of access services to MCI has in the past shown a
11 willingness to go to its switch vendors to obtain features and functions
12 MCI stated it needed to provide services to its customers. Carrier
13 Identification Parameter is one example. Thus what MCI suggests here
14 is common practice. GTE is throwing up roadblocks rather than trying
15 to come up with solutions.

16

17 Q. MR. DELLANGELO ADDRESSES UNBUNDLING OF ADVANCED
18 INTELLIGENT NETWORK CAPABILITIES AT GREAT LENGTH AND
19 INSISTS THAT GTE WILL PROVIDE AIN ACCESS ONLY ON A
20 MEDIATED BASIS. DOES THIS MEET MCI'S REQUIREMENTS FOR AIN
21 ACCESS?

22 A. Given the controversy that has been created regarding unmediated
23 access to AIN functionality, MCI will not seek unmediated access at
24 this time, although it may do so in the future through a BFR process.

25

1 MCI does need the ability to store its applications in GTE's Service
2 Control Point (SCP). MCI also needs the ability to access GTE's SCP,
3 both through MCI's own switch and through unbundled switching
4 purchased from GTE. MCI understands that GTE is willing to provide
5 access in this manner, thus eliminating issues regarding AIN access for
6 the time being.

7

8 Q. DOES THIS CONCLUDE YOUR TESTIMONY?

9 A. Yes.

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1 Q (By Ms. Mcmillin) There were no exhibits
2 attached to either your direct testimony or rebuttal
3 testimony, were there?

4 A That's correct.

5 Q Please summarize both your direct and
6 rebuttal testimony.

7 A Chairman Clark, members of the Commission,
8 good morning. I'm Paul Powers of MCI's local network
9 engineering group. As a member of the local
10 interconnect planning group, I'm responsible for the
11 design, planning and implementation of MCI's local
12 switch network.

13 My full-time job is to actually manage the
14 interconnection of MCI's switch network with that of
15 the incumbent local exchange carriers. MCI has
16 already installed 13 local switches with a like number
17 to come in the coming year, including local switches
18 in Miami and Orlando. I have personally managed the
19 interconnects with GTE in Seattle, Washington,
20 Portland, Oregon and Los Angeles, California.

21 The issues in this case are not abstract or
22 theoretical to me. How this Commission resolves these
23 issues will have a direct and measurable impact on the
24 way that I'm able to deliver competitive local service
25 to the consumers of Florida.

1 My testimony identifies MCI's initial
2 technical requirements for interconnection, unbundling
3 and collocation. These are basic building blocks for
4 allowing competition in local service. My testimony
5 is to identify these elements that MCI requires,
6 including the NID, local loop distribution, local loop
7 switching with selected routing, signalling AIN
8 transmission, including dark fiber and physical and
9 virtual collocation.

10 There are two points I hope the Commission
11 will take away from my testimony. Number one,
12 interconnection unbundling and collocation are not
13 new; and, number two, that the devil is in the
14 details. Interconnection unbundling and collocation
15 are not new. They've been done in the long distance
16 market and between independents for quite some time.

17 GTE claims technical infeasibility, but
18 attempts to support its claims with either it costs
19 too much or it will be difficult to keep records, or
20 the dreaded harm to the network. These appear to be
21 the same arguments that we heard before, waged at the
22 time of AT&T's divestiture.

23 I urge the Commission to ask the question
24 why. Why is GTE taking this tack? No monopolist has
25 ever welcomed competition with open arms. It has

1 taken the vigorous efforts of commissions such as this
2 to monitor and ensure competition.

3 Number two, the devil is in the details. I
4 strongly urge this Commission to ensure that the
5 ultimate result of this proceeding is a real
6 implementable, enforceable contract with technical
7 specifics so we can all get down to work to provide
8 the competitive services to the consumers of Florida.
9 Thank you.

10 **MS. MCMILLIN:** Mr. Powers is available for
11 cross.

12 **CHAIRMAN CLARK:** Mr. Tye.

13 **MR. TYE:** No questions.

14 **CHAIRMAN CLARK:** Mr. Gillman.

15 **MR. GILLMAN:** Thank you, Chairman Clark.

16 **CROSS EXAMINATION**

17 **BY MR. GILLMAN:**

18 **Q** Good morning, Mr. Powers.

19 **A** Good morning.

20 **Q** When you said there's the devil in the
21 details, I mean, isn't that true with interconnection
22 requests as well, that -- or an unbundling request,
23 that one request may be very different from another
24 request with respect to the network?

25 **A** That's true.

1 Q And it wouldn't be unreasonable, would it,
2 for those requests that require GTE to incur
3 additional sums to unbundle the loop, that MCI should
4 pay for those, is it?

5 A I'm not sure I follow.

6 Q Well, would you agree with me that certain
7 unbundling requests may create additional costs on
8 behalf of GTE to provide the unbundling request?

9 A Perhaps. I don't know that for sure.

10 Q Okay. Assuming there were some costs, it
11 would not be unreasonable for MCI to pay for those
12 costs, would it?

13 A As long as they are -- I guess they would be
14 included in the costs of the actual unbundled element.

15 Q Do you think those costs ought to be
16 included in the unbundled loop rate?

17 A I believe that they are.

18 Q Do you believe that they're included in
19 Mr. Woods' analysis under the Hatfield model?

20 A I'm not sure.

21 Q You don't know one way or the other?

22 A No. I'm not familiar with the Hatfield
23 model.

24 Q But it is your opinion that those costs
25 ought to be included?

1 A It would be reasonable, yes.

2 Q If they are not included, it would be
3 reasonable, then, that MCI would have to pay for those
4 costs and on a case-by-case basis for a specific
5 unbundling request?

6 A I guess to the extent that that cost or that
7 request only benefits MCI and no other carrier,
8 including GTE.

9 Q How would GTE benefit from providing the
10 unbundled loop to MCI?

11 A I believe that GTE is going to be
12 compensated for loops.

13 Q Okay. So, I mean, you're not opposing if
14 there are additional costs, that somehow GTE will be
15 compensated for that?

16 A I can't speak to all the costs. I'm not a
17 cost witness.

18 Q Might there also be technical questions that
19 would arise in some requests for unbundled loops
20 and -- or with respect to some unbundled loops and
21 they wouldn't arise with respect to others?

22 A I imagine that's possible, yes.

23 Q And the companies would have to negotiate
24 those technical details out before an unbundled loop
25 would have to be provided by GTE?

1 A Yes, I believe so.

2 Q Drawing your attention to Pages 15 to 16
3 beginning on Line 23 on page 15.

4 MS. MCMILLIN: Is this of the direct
5 testimony?

6 MR. GILLMAN: Direct.

7 Q (By Mr. Gillman) Where you refer to
8 that -- also requires that the trunks used to carry
9 local and interexchange traffic are configured with
10 B8ZS extended superframe, and then you go on to
11 explain that if a line isn't conditioned with -- isn't
12 configured with that superframe. And MCI would be
13 willing to pay for that additional upgrade, would it
14 not?

15 A I think I stated before that any -- MCI
16 would willing to be pay for any portion that is
17 directly for its use and does not benefit any carrier,
18 including GTE going forward.

19 Q I guess my question is, you're not expecting
20 GTE to upgrade all of its loops while waiting for
21 MCI's request?

22 A No.

23 Q It would be done on a case-by-case basis?

24 A I believe that's the way GTE would do it in
25 their own network today, yes.

1 Q Now, are you saying that MCI could pick a
2 point of interconnection that does not exist on GTE's
3 network?

4 A I don't believe I made that point, no.

5 Q Are you saying that the point of
6 interconnection could be picked unilaterally by MCI at
7 any point on the GTE network?

8 A I believe at any technically feasible point,
9 yes.

10 Q And GTE would have no say in that except for
11 the argument that it's not technically feasible?

12 A I believe that's correct.

13 Q I want to draw your attention to Page 19 of
14 your direct testimony, and I want to try to understand
15 these two scenarios that appear on Page 19. If I
16 understand your testimony correctly, when MCI -- when
17 an MCI customer terminates a call on the ILEC network,
18 MCI would pay tandem switching and transport; is that
19 correct?

20 A Yes, if the tandems involved in the call --
21 yes.

22 Q Well, I'm asking about this scenario.

23 A Okay. Yes.

24 Q And then they would pay for a termination at
25 the end office.

1 A Yes.

2 Q Now, is MCI proposing bill and keep in this
3 case?

4 A I don't believe so.

5 Q You're proposing symmetrical rates?

6 A Yes.

7 Q So would these two be two separate charges,
8 the tandem switching and transport, as well as the
9 termination?

10 A If that's the way that GTE breaks them out,
11 yes.

12 Q Now, in the second scenario, when a -- when
13 GTE -- when a GTE customer would pay for -- would pay
14 for termination on MCI's network, GTE would also be
15 required to pay these two elements on a symmetrical
16 basis to MCI?

17 A No.

18 Q They would not?

19 A No.

20 Q And is that because the transport is not
21 going over the same lines as it is in the first
22 example?

23 A No. First of all, the consumer, or actual
24 subscriber, wouldn't be paying the rate. It would be
25 inter-company transfer of funds. And the rate that

1 MCI would be charging would be a rate symmetrical to
2 the tandem, the transport and the local termination.

3 Q So MCI would charge GTE these first two
4 items on Line 6 and Line 9, would they not?

5 A No. Once again, it's a rate equal to those
6 two items. It's not those two items individually.

7 Q One rate equals both of those items?

8 A Correct.

9 Q And then MCI would also charge the -- GTE an
10 additional charge in addition to that, would it not?

11 A I'm not sure what charge --

12 Q What charge are you referring to from the --
13 in Line 16, transport from the IP to the MCI switching
14 center?

15 A In the first example where a call is coming
16 from an MCI switch to GTE's tandem, there would be an
17 interconnection point between the two networks. GTE
18 is able to charge MCI for the transport from the
19 interconnection point to its tandem, the tandem
20 switching charge, the tandem to end office transport,
21 plus the local switching.

22 In turn, MCI -- a call flowing in the other
23 way, MCI would charge GTE a symmetrical rate that
24 would be equal to the tandem switching, the tandem to
25 end office transport, and the end office switching,

1 plus the transport from the interconnection point back
2 to MCI's switch.

3 Q So GTE would pay an additional rate for the
4 transport from the interconnection point to the MCI
5 switching center; correct?

6 A It would depend on where the interconnection
7 point actually occurred.

8 Q Well, in this example the interconnection
9 point is in the tandem, is it not?

10 A That's correct.

11 Q So they would pay an additional charge from
12 the tandem to MCI's switching center?

13 A That's correct.

14 Q As I understand it, I think from either
15 testimony or maybe some of the oral testimony from
16 some of the parties, that MCI or ALECs in general will
17 not have near as many central offices as incumbent
18 LECs, will they?

19 A Initially, no. Over the long term, I can't
20 say.

21 Q And at least initially, is it MCI's plan to
22 serve the state of Florida with just one central
23 office?

24 A No. I think in my opening statement I
25 already indicated that MCI already has switches

1 installed in Miami and Orlando.

2 Q Okay. I'm sorry. Will the Orlando switch
3 serve the Tampa area?

4 A It may, yes.

5 Q And where would MCI propose the
6 interconnection point be?

7 A I'm not quite sure exactly where the
8 interconnection point would be; either at GTE's Tampa
9 tandem or at a collocation point.

10 Q Would you agree with me that the charge that
11 GTE would have to pay to MCI for the transport from
12 the IP to the MCI switching center, that that point
13 would run from the tandem all the way to Orlando?

14 A I'm not sure if that's exactly how that's
15 planned to be calculated. I imagine those details
16 would be provided in the contract for Orlando -- or
17 for Orlando and Tampa, the interconnect in Tampa.

18 Q I'm sorry. I didn't understand that.

19 A That may not necessarily be the case, that
20 we would ask GTE to pay for transport all the way back
21 from Tampa to Orlando; but I don't know the specifics
22 of the contract with GTE.

23 Q Well, on Page 19 of your testimony, Line 16,
24 it says -- you talk about the ILEC, not GTE, so maybe
25 that's a difference -- for calls terminating on the

1 MCI's network are transported from the IP to the MCI
2 switching center.

3 If you assume that GTE's tandem, the
4 interconnection point is in GTE's tandem in Tampa,
5 isn't it MCI's position that GTE would have to pay
6 transport all the way to Orlando?

7 A Once again, I'm not sure what the specific
8 contract language with GTE would say.

9 Q So with respect to point 1 there, it's not
10 for certain whether MCI would charge the entire
11 transport route? Is that what you're saying?

12 A That's essentially true, yes.

13 COMMISSIONER DEASON: Excuse me just a
14 second. You keep referring to the contract language.
15 What contract?

16 WITNESS POWERS: At the point at which we're
17 going to need to interconnect with GTE we're going to
18 have to enter into a contract for interconnection
19 which will spell out the details of where we will
20 interconnect and how the charges will affect each of
21 the companies; and I'm not sure that that has been
22 tendered yet to GTE.

23 Q (By Mr. Gillman) By contrast, the
24 transport that MCI would pay in this instance would
25 just be between GTE's tandem and GTE's end office?

1 A Now, the transport, the initial transport
2 would be from the interconnection point, wherever
3 that's established, to a GTE tandem.

4 Q Well, in your example the interconnection
5 point is in the tandem, is it not?

6 A In this example. Okay. Yes.

7 Q So GTE would pay transport to the tandem to
8 the end office where the call terminates; is that
9 right?

10 A Can you tell me which way the call is
11 flowing?

12 Q MCI originated.

13 A A call originating from MCI, that would
14 be -- MCI would expect the tandem switching, the
15 tandem to end office transport, and the end office
16 switching.

17 Q Would you agree with me, I guess at least as
18 you state it there in Lines 16 and 17, that the
19 farther away MCI places its switching center, that the
20 higher the cost would be for transport to GTE?

21 A I'm not sure if the structure of the -- of
22 how the charges would be if it's mileage sensitive.

23 Q You don't know what MCI would charging for
24 transport?

25 A Correct. I'm not sure if it's a mileage

1 sensitive basis.

2 Q Has MCI done any studies as to what it costs
3 to terminate a call?

4 A Not to my knowledge. I'm not sure.

5 COMMISSIONER DEASON: Let me ask another
6 question. Would all of these issues go away if you
7 simply had a bill and keep framework?

8 WITNESS POWERS: I think there's still the
9 issue of where the companies -- the actual point of
10 interconnection.

11 COMMISSIONER DEASON: I'm talking about who
12 pays who for what and how long a distance and all of
13 this that we're discussing here.

14 WITNESS POWERS: No, I don't believe that
15 bill and keep addresses the actual underlying
16 facilities between the companies. It's where the
17 interconnection point would actually be, and how the
18 companies pay for that -- their share of where the
19 interconnection point is between them.

20 So I think that's been an issue in several
21 of the other states where bill and keep has been
22 ordered. Oregon, in particular, we had an issue with
23 that where bill and keep was ordered, but the
24 interconnection point was not specified. And the
25 incumbent there attempted to place a build-out

1 requirement on MCI to interconnect at all of its end
2 offices in order to achieve bill and keep. So the
3 interconnection point is extremely important in this
4 issue.

5 Q (By Mr. Gillman) I'm correct, am I not,
6 Mr. Powers, that the FCC in its First Report and Order
7 did not require GTE to provide unbundled access to
8 dark fiber?

9 A The FCC declined to consider dark fiber;
10 that's correct.

11 Q And dark fiber is not used to provide
12 telecommunications services, is it?

13 A Not as it sits dark, no.

14 Q Drawing your attention to, I guess, Page 42
15 of your direct testimony where you talk about AIN. In
16 fact -- I'm sorry. Let's just go to your rebuttal
17 testimony on Page 10.

18 Just to confirm, MCI is not seeking
19 unmediated access to GTE's AIN at this time; is that
20 correct?

21 A Correct.

22 Q Would you agree with me that there needs to
23 be some -- or are you proposing industry trials and
24 further investigation on this issue?

25 A I believe there have been some trials

1 already conducted that show the capability of AIN, and
2 several of the incumbents are already using AIN within
3 their network. I believe to have that fully
4 implemented, AIN applications would need to be tested
5 before they're introduced.

6 Q I mean, now back to your direct testimony on
7 43, Lines 2 to 3 -- and I should say Mr. Caplan's
8 testimony -- where you propose appropriate industry
9 trials. What do you expect to obtain? What sort of
10 information would come out of those industry trials?

11 A I believe they will prove technical
12 feasibility.

13 Q I'm sorry?

14 A I believe that they will prove technical
15 feasibility of AIN.

16 Q Well, is it just a matter of proof, or will
17 they make it technically feasible?

18 A I believe there will be more proof than is
19 available today because of carriers already using it
20 within their own networks.

21 Q But there's no unbundling of the AIN
22 triggers at this point, is there?

23 A No.

24 Q I mean, would you expect maybe industry-wide
25 standards to come out of those trials?

1 A I would expect additional standards to come
2 out of those trials, yes.

3 MR. GILLMAN: I have nothing further. Thank
4 you.

5 CHAIRMAN CLARK: Staff?

6 **CROSS EXAMINATION**

7 BY MS. CANZANO:

8 Q Good morning, Mr. Powers.

9 A Good morning.

10 Q Could you just clarify for Staff what
11 exactly have you agreed to regarding AIN?

12 A I don't believe that we have any current
13 agreement with GTE on AIN.

14 Q But you're not requesting unmediated access
15 at this time?

16 A That's correct.

17 Q Had you originally requested that?

18 A I believe it was our original intent when
19 the first direct testimony was filed that we were
20 seeking additional AIN unbundling, and we further --
21 we've withdrawn that from the direct testimony.

22 Q Okay. I just wanted to clarify that. Thank
23 you. In your rebuttal testimony on Pages 5 and 6, you
24 discuss the topic of security measures for
25 collocation. Do you recall that?

1 A Yes.

2 Q Please explain specifically which safety and
3 security measures proposed by GTE are unreasonable in
4 your opinion.

5 A Could you give me a reference to the line
6 that you're actually speaking to?

7 Q Yes. It starts at the bottom of Page 5 of
8 your rebuttal testimony starting on Line 21 and then
9 going through Line 7 of Page 6.

10 A I believe that the -- as is stated here,
11 that reasonable safety and security measures would be
12 to provide standard fire suppression, power and
13 breaker capabilities, electrical breaker capabilities.
14 Standard for collocation is a chain-link area, and I
15 believe that measures beyond that that would require
16 anything more than the standard fire and power
17 requirements would be unreasonable.

18 Q To your knowledge, has GTE proposed any
19 other measures that you consider unreasonable?

20 A Not to my knowledge at this point. I don't
21 believe we have gotten any collocation for local
22 service yet with GTE.

23 Q Is it more efficient to offer the same
24 services that GTE provides by combining unbundled
25 elements rather than purchasing this service at

1 wholesale?

2 **A** Is it more efficient? I'm not sure I can
3 speak to that. But I think by putting together
4 unbundled elements, MCI can add value to the customer
5 in putting them together in a unique way and combining
6 them with additional MCI products and services.

7 **Q** So you think by combining those unbundled
8 elements, you might provide a unique service? Is that
9 your response?

10 **A** Yes.

11 **Q** Are there any technical efficiencies?

12 **A** As far as we may bundle -- we may take
13 several unbundled elements and put them together to
14 provide a product or service that isn't provided by
15 GTE today, and we may exclude some elements that they
16 currently include in one of their service offerings.

17 **Q** Is it also more efficient in terms of cost?

18 **A** I'm not sure. Not being an economist, I'm
19 not sure.

20 **Q** Okay. Well, thank you.

21 **MS. CANZANO:** Staff has no further
22 questions.

23 **CHAIRMAN CLARK:** Commissioners. Redirect.

24 **MS. MCMILLIN:** Just a few, Chairman Clark.

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REDIRECT EXAMINATION

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BY MS. MCMILLIN:

Q Mr. Powers, to go into a few areas that were explored on cross examination, you were asked some questions about a single point of interconnection. Can you explain why MCI wants a single point of interconnection?

A I believe to start with a single point of interconnection, when MCI will go into a particular city such as Miami, Orlando and will be installing a switch, that the interconnection with the incumbent should occur initially at only one point.

MCI shouldn't be required to be burdened with what's known as a build-out requirement to build out to multiple points in the incumbent's network. I believe that that imposes a burden on new entrants and makes it difficult to enter new markets.

As networks mature, I imagine additional interconnection points would make sense from an engineering efficiency point, make sense as the networks begin to expand that the companies will find engineering efficiencies to interconnect at more than one point, and for network reliability and survivability, that makes sense in the long term.

Q You also were asked some questions

1 pertaining to dark fiber. Why does MCI take the
2 position that dark fiber should be unbundled and why
3 is that important?

4 A As an engineer, I'm not sure I really see
5 the distinction between dark fiber and an unbundled
6 loop. Both of them provide just a transmission path.
7 I understand why in a competitive environment one
8 company would want to keep -- hold something back from
9 another competitor. But since this is not necessarily
10 a competitive environment yet and GTE has these
11 assets, these unused assets in the ground available
12 for their use at any time, I'm not sure why they're
13 withholding this element as opposed to an unbundled
14 loop.

15 Q You also were asked some questions about
16 MCI's position on unmediated access to AIN
17 functionality, and just to clarify, is this something
18 MCI is putting on the table for now, or is it
19 something that that may be raised again in the future?

20 A Definitely this will be raised again, I
21 think. At this time MCI is not requiring unmediated
22 access, but will look for a solid, bona fide request
23 process that in the future, as this develops and as
24 MCI's network matures, that we'll be requesting
25 additional AIN capabilities.

1 **Q** And my last question, Mr. Powers, pertains
2 to some questions regarding the details of items that
3 would be negotiated in an agreement. Apart from those
4 details, is it MCI's position that the generalities
5 with regard to those items can be resolved by the
6 Commission or should be addressed by the Commission?

7 **A** Yes. I think the Commission needs to set
8 the groundwork under which the specific contractual
9 arrangements can be based on, and we hope that the
10 Commission does that and is very specific so that
11 there can be no vagueness as to what they mean.

12 **MS. MCMILLIN:** I have no further questions.
13 Thank you.

14 **CHAIRMAN CLARK:** Thank you, Mr. Powers.
15 (Witness Powers excused.)

16 - - - - -

17 **CHAIRMAN CLARK:** Mr. deCamp.

18 **MS. MCMILLIN:** Yes. MCI would call Timothy
19 deCamp.

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21 (Transcript continues in sequence in
22 Volume 9.)

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