272 BEFORE THE 1 FLORIDA PUBLIC SERVICE COMMISSION 2 3 In the Matter of :DOCKET NO. 960847-TP Petitions by AT&T Communications of: DOCKET NO. 960980-TP 4 the Southern States, Inc., MCI Telecommunications Corporation, MCI: 5 Metro Access Transmission Services,: Inc., for arbitration of certain 6 terms and conditions of a proposed : agreement with GTE Florida 7 Incorporated, concerning interconnection and resale under 8 the Telecommunications Act of 1996 .: 9 FIRST DAY - AFTERNOON SESSION 10 VOLUME 3 11 PAGE 272 through 393 12 **PROCEEDINGS:** HEARING 13 **BEFORE**: CHAIRMAN SUSAN F. CLARK 14 COMMISSIONER J. TERRY DEASON COMMISSIONER JULIA L. JOHNSON 15 COMMISSIONER DIANE K. KIESLING COMMISSIONER JOE GARCIA 16 DATE: Monday, October 14, 1996 17 18 PLACE: Betty Easley Conference Center Room 148 19 4075 Esplanade Way Tallahassee, Florida 20 DOCUMENT NUMBER-DATE REPORTED BY: NANCY S. METZKE, RPR, CCR 21 **APPEARANCES:** 22 989 (As heretofore noted.) 23 24 BUREAU OF REPORTING 25 RECEIVED 10-15-96 C & N REPORTERS TALLAHASSEE, FLORIDA (904) 385-5501

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PROCEEDINGS 1 2 (Transcript follows in sequence from Volume 2) 3 4 RONALD SHURTER 5 having been called as a witness on behalf of AT&T, and 6 being duly sworn, continues his testimony as follows: 7 CONTINUED CROSS EXAMINATION 8 BY MS. CASWELL: 9 Okay. I think it's line 8. It says, "GTE has 10 0 refused to agree to an interim solution until the parties 11 reach agreement on pricing issues." That's not true, is it? 12 It was true, and we were in the process of Α 13 working towards the type of agreement that we needed for 14 the electronic to electronic interface. What was agreed to 15 at this point was the very basic capability of manual and 16 some network data mover capability that we had reached some 17 agreement on, but that was not a fact of what we needed to 18 be able to provide the system to system capability to be 19 able to get into the market. 20 Now negotiations have continued in parallel to 21 the filing of these testimonies in this arbitration case, 22 so my comments to the point that we are nearing agreement 23 as it relates to what that electronic platform would look 24 like for electronic interface is a fact that negotiations 25

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1 continue.

2	Q I want to be clear on one thing. We are talking
3	about interim solutions and we're talking about long-term
4	solutions. As far as the interim solutions go, AT&T and
5	GTE have agreed to certain interim solutions to allow you
6	access to our support systems; is that true?
7	A We have agreed to yes, we have agreed to a
8	manual process for the 800 number calling that I talked
9	about to centers as well as for ordering an electronic
10	transport of the order.
11	Q And we have done that despite the fact that we
12	have no agreement on cost recovery or how you are going to
13	pay for that, right?
14	A Yes, that's true.
15	Q And are you aware that we spent well over a
16	million dollars on systems changes so far?
17	A I do not know what you have spent.
18	Q But you do know, don't you, that we have
19	established the National Open Market Center just to process
20	ALECs orders, don't you?
21	A Yes.
22	Q Okay. So again, Mr. Carroll's testimony is
23	incorrect to the extent that he states explicitly otherwise?
24	MR. LOGAN: Object that the witness has already
25	answered this question.

MS. CASWELL: Okay. Then I'm a little puzzled as 1 to why the testimony wasn't changed in the beginning, and I 2 would like to strike that testimony if it's no longer true. 3 CHAIRMAN CLARK: Mr. Logan. 4 I think the witness has testified MR. LOGAN: 5 6 that the testimony was filed at a specific date, that negotiations have gone on to that point. She is, 7 8 Ms. Caswell has asked some questions about the interim 9 solutions. I think the statement still -- I think the witness has correctly described what has happened with 10 respect to that issue and to that statement. 11 12 CHAIRMAN CLARK: Ms. Caswell. MS. CASWELL: As long as we understand that this 13 14 testimony is no longer correct, that is fine because it 15 goes on for guite a while talking about interim solutions 16 and GTE's resistance to even talking to AT&T about those 17 solutions until we have agreed on pricing. If that is no 18 longer true and everybody understands that and they won't argue it in their brief because it's in the record now, 19 then I'm fine with it. 20 21 CHAIRMAN CLARK: I think we have the statements by Mr. Shurter explaining the genesis of that statement and 22 explaining the evolution of the negotiations to this point. 23 24 MS. CASWELL: Okay. Thank you. 25 BY MS. CASWELL:

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I think you mentioned a second step, interim Q 1 process, and that's what we are going through now trying to 2 take out the human intervention in some of the ways that 3 you are accessing the systems now or that you can access 4 the systems now; is that right? 5 Α Yes, and I think your use of the word "interim" 6 also relates back to some of the confusion of the last 7 statement. In other words, you are using the word 8 "interim" as related to an initial step and "interim" as it 9 relates to the ongoing. So, yes, the interim covers both. 10 11 0 So are you saying I was confused about what this testimony reads here? 12 I was only making the point that the use of the 13 Α word "interim" to refer to a first-step electronic 14 implementation and a second step could be confusing. 15 16 0 Okay. So I'm trying to go by what you're 17 referring to these as. There is a first-step interim and a 18 second-step interim; is that correct? 19 Α Yes. 20 Q Okay. And with regard to the second-step 21 internal negotiations to remove the human intervention, if 22 you will, would you say those negotiations are progressing 23 quite well? 24 Α Yes, I like the degree of joint cooperation that 25 is now occurring and the fact that we do and have been

receiving commitments and a commitment plan as to when 1 functionality and capability is going to be available on a 2 That kind of discipline is very helpful, and date certain. 3 that kind of commitment from GTE I believe is important. 4 We -- I should comment is that we are here far after the 5 end of the negotiation period in arbitration before we are 6 able to get those kind of committed plans. So as we look 7 forward to what we need to have the support total service 8 resale and unbundled network element, it is in fact this 9 commitment to a plan with date certain for implementation 10 that I believe is essential for AT&T's market entry. 11 Okay. So just to be clear, because it's not 12 0 entirely consistent with the testimony submitted, the only 13 thing we are disagreeing about at this point is the 14 permanent electronic interfaces; isn't that true? 15 16 А I should say that the interim step 2 that we just talked about here is not finalized in terms of agreement. 17 We are in negotiation. 18 19 0 Right. 20 Α It is my expectation based on what I see in negotiation that that should be finalized in the next 21 couple of weeks. 22 23 0 Okay. So we are not totally in agreement. 24 Α I do like 25 what I've seen relative to commitment, joint working and a TALLAHASSEE, FLORIDA C & N REPORTERS (904) 385-5501

1 plan, and I believe that is required, not only to cement 2 the step 2 on interim but also to provide the electronic 3 interface for unbundled network elements as well.

Q Okay. In regard to the long-term solution, the permanent electronic interfaces that you want, don't they depend to some extent on industry standards for that sort of thing, or do you want a unique way of access just for yourself?

Yes, they should depend on industry standards. 9 Α No, AT&T does not want a unique implementation for itself. 10 And what we are sharing and will be sharing with GTE are 11 some specifications and requirements that we've developed 12 in conjunction and discussions with others in the industry 13 that really take advantage of recommendations and positions 14 15 that the OBF has taken, has taken advantage of standards in and around what these gateways should look like and what 16 should be the information and the protocols of information 17 18 that is passed forward to that or taken advantage of the kind of standards that have been put in place in support of 19 access type of services where we could use the access 20 service request process and some of the billing systems, 21 22 like the CABS system that supports that as the standard. So what our specification would draw upon is in fact as 23 24 much of the standards that are ready today in pulling that 25 together and a commitment to work with those in the

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1 industry to expedite those standards a common way.

As I said in my opening summary, I believe that 2 if we can get a standard definition of what unbundled 3 network elements are across the United States and have a 4 standard electronic interface platform that supports that, 5 then that encourages multiple new entrants quicker into the 6 market place, and that's what AT&T is trying to support. 7 Okay. Just to be clear, GTE has agreed to Q 8 provide you electronic interfaces, that's right, isn't it, 9 on a permanent basis? 10 Would you ask the question again please? Α 11 It's true, isn't it, that GTE has agreed to 0 12 provide you electronic interfaces, the long-term solution 13 we have been talking about? We have agreed to that, 14 haven't we, or we're not opposed to that? 15 I think the answer to that is yes. I think GTE 16 Α is not opposed to that. Where I have a problem is in the 17 specifics, and with this kind of a situation where you 18 really are dealing with very specific handoffs of 19 information where both parties, new entrants as well as 20 GTE, has to make accommodations in their systems in and 21 about the same time frame, and you've got to tie that to 22 the ability to support both TSR and unbundled network 23

25 So although AT&T truly appreciates the intent that GTE says

24

elements.

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The specifics of the commitment is important.

when they, yes, we are willing to support that, it is in
 fact the lack of a specific committed plan with a date
 certain that is missing.

Q Okay. I believe you testified you will be sharing specifications and requirements with GTE and that that use of "will be" tells me that you haven't done it yet in this proceeding; is that true?

Α Yes, that is correct. Our subject-matter experts 8 have been discussing that over I'd say last week, maybe a 9 10 little before that, and it was really put into the sense with the subject-matter experts when would it be 11 appropriate for GTE to be able to put resources on to begin 12 13 to examine those requirements. They wanted to complete the commitment on step 2 of the interim and get that done and 14 get a committed plan and, therefore, that's why I think 15 16 your requirements are going to be examined in some detail this week or next week. 17

Q Okay. But as of this time, we don't have the specific detailed requirements that we would need to build the permanent interfaces that you are seeking; is that right?

A Yes, you do not have the requirements that wehave today available.

Q Okay. I'm sorry. When would you say it would be reasonable for us to have in place the interfaces that you

1 want on a permanent basis?

This is a tough question to be specific. 2 Α You would like to say let's have a specific date. The FCC said 3 and suggested a date of January the 1st, 1997. When you 4 take a look at where we are today here in this hearing and 5 look at the fact that we will be able to examine 6 requirements maybe next week or the next week, I believe 7 that January date may not be appropriate. I do believe, 8 though, that the platform that we are talking about for 9 total service resale and unbundled network builds so 10 heavily on industry standards that are available and that 11 we believe GTE is quite familiar with, that an 12 13 implementation in early 1997 would be appropriate.

Q When you use the term "industry standards," those standards haven't been endorsed universally in the industry yet, have they?

Yes, some of the standards that are in the 17 Α requirement have in fact been fully endorsed. 18 Those that 19 associate specifically with the gateway and the interface and flow of information would be a good example of that. 20 Ι think the standards as it relates to access service, 21 resale, ordering, those processes that are appropriate to 22 23 support the ordering of a single unbundled network element, 24 those standards are pretty much in place. And I would say 25 that there are some aspects of the platform that where

standards need to come yet, but there is a good indication 1 where people in the industry think are appropriate. So for 2 example, I don't believe it's an industry standard that 3 CABS as a billing system is the appropriate billing system 4 for local; however, many in the industry are saying that 5 that standard that has been applied for access looks like 6 it could very much support this quickly. 7 But the fact remains that everybody hasn't agreed 8 0 on all the standards; is that correct? 9 That's correct. 10 Α If AT&T requests something that is just Okay. 11 0 12 unique to AT&T, just something that AT&T wants, is AT&T willing to pay the full cost for that? 13 14 А Yes, we are. 15 0 Let's talk about PIC changes. Today if an interexchange carrier wants to submit a PIC change to GTE, 16 it just transmits the change electronically to GTE and the 17 change is made through a mechanized process, and I believe 18 Mr. Gillan called it the ultimate electronic interface. 19 Is 20 that consistent with your understanding that's the way it 21 works? 22 Α Yes. Okay. And you want to change that system; is 23 Q that right? 24 25 Α No. What we are asking for here before the C & N REPORTERS TALLAHASSEE, FLORIDA (904) 385-5501

Commission is that in the situation where AT&T has 1 marketed, sought and won customers in this local market 2 3 place, those local customers now are AT&T's customers; we are the local service provider. We believe it is 4 appropriate for the local service provider to be the one 5 6 that would accept changes from their customer as it relates 7 to the interexchange PIC changes. We would then be obligated as any local service provider to implement those 8 9 changes within the network.

We also are seeking, not only that that's 10 appropriate, and being that we would be relying on GTE to 11 help implement some of that, that we would want a 12 simplified ordering process because it's basically very 13 14 straightforward. The customer has notified us that they 15 want to move from interexchange carrier B to C and we would 16 be implementing that. So we just want to do that very 17 simply and also have itemized record backs so that we can 18 bill appropriately.

19 Q Okay. The way the process works today, the 20 process you said you don't want to change, MCI, for 21 example, can submit a PIC change request for a customer to 22 transfer from AT&T to MCI; is that true?

23 A Yes.

Q And you want to change that, don't you?
A No, I don't. In this case that you are referring

to, you're saying MCI would be notifying GTE. In that scenario that you have walked through, GTE is the local service provider. What I'm talking about here is when the customer is an AT&T customer and we are the local service provider. We believe it is the responsibility of the local service provider to implement such changes.

Q Okay. See if we can do this a different way.
Well, let's see what -- let's try and describe what you
want, okay? Another IXC, say MCI again, would submit a PIC
change request to GTE electronically just as it does today,
okay? We are clear on that step? That's what happens
today, right?

13 A Yes.

14 Q Okay. But if the change was for an AT&T 15 customer, GTE's system would have to detect that and reject 16 the change; is that correct?

No, we are asking for the same exact procedure 17 Α that exists in the industry. MCI is notifying the local 18 service provider of a change. In this case you would 19 notify the local service provider, which would be AT&T, if 20 21 it was an AT&T customer. We would then work through the mechanisms that have been set forth in the Act and in GTE's 22 wholesale business in support of our business to execute 23 those changes. 24

25

Q What if MCI calls -- what if an end user calls

GTE with a PIC change request? Today we would put in that 1 request. Under your proposal we could not put in that 2 request; is that right? That change would not be made. We 3 would have to tell the customer, no, you've got to call 4 5 AT&T? What I would expect you to do is if an end user 6 Α called you and it was an AT&T customer that you would ask 7 them to call their local service provider; that is their 8 responsibility. 9 So your answer is yes; is that right? 10 0 Well, I'm not sure. If you would restate the Α 11 question, I'll give you a yes or no. 12 Today if an end user calls and says, I 0 Okav. 13 want to change my interexchange carrier, please change me 14 from AT&T to MCI, we can do that change for them; is that 15 right? 16 If that is the standard in the industry. 17 Α 0 Well, I thought --18 And I don't know. If that is, yes, that that's 19 А the standard, then yes, you could do that. 20 Well, you are testifying that we should remain 0 21 with the standard in the industry, and now you are telling 22 23 me you don't know what that standard is? I'm familiar with the standard of interexchange 24 Α carriers can call a local service provider and say that 25 C & N REPORTERS TALLAHASSEE, FLORIDA (904) 385-5501

they want a customer market place to make the change. The 1 nuances on what is handled if a customer calls you 2 directly, I'm not familiar with what the detailed specifics 3 of that standard are. 4 Would you agree today the way the process works, 0 5 PIC changes are submitted electronically to GTE and then 6 7 GTE just makes them? Yes, when GTE is the local service provider. 8 А 9 0 So if MCI submitted a request to us electronically, just as it does today, to change a customer 10 from AT&T to MCI, we could not make that change under your 11 proposal; is that true? 12 13 Α To change from who to whom? 14 0 From MCI to AT&T. We could not accept that 15 request. Our electronic system would not be able to accept 16 that request under your proposal; is that right? 17 Α Yes, I'm proposing that the change should be 18 submitted to the local service provider. 19 0 So that is a change from the way the system works 20 today, isn't it? 21 Δ No. 22 CHAIRMAN CLARK: Ms. Caswell, we have gone round 23 and round, and I understand him to say that he wants the 24 local exchange company, whoever that is, to make the 25 change; and because GTE will no longer be the single

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provider of local exchange service, if AT&T is, then they 1 have to do it. Now that is what I have understood. 2 Α Yes. 3 So would we need to modify our electronic 0 4 processes to accommodate your change? 5 Yes, in that that's what these electronic Α 6 interfaces are about. It's not changing the PIC 7 8 notification process in the industry, it's changing the electronic interfaces between how that is processed between 9 AT&T and GTE as the wholesale support. 10 11 0 With regard to loop testing, Mr. Shurter, would you be happy with what GTE provides to itself? 12 Yes, I am. Yes, I would be. This is an issue of А 13 14 a parity, and if in fact GTE is testing local loops, be it either on installation of new services or on some kind of 15 maintenance or repair process. If in fact they test and 16 17 they document what the results of those tests are, we are 18 simply asked that they process and provide that to us. 19 0 And if we don't -- I'm sorry. 20 Α Go ahead. 21 0 If we don't document the results of that test, 22 then obviously there is no need to provide it to you; is 23 that right? 24 А That's right. 25 Q Okay. The contract you've proposed in this

1 proceeding provides all the relief AT&T seeks in its
2 petition; is that right?

A Yes.

3

Q Okay. So would you agree that AT&T should pay
5 \$2.49 for secondary directory distribution?

A Yes, and let me tell you the conditions when I think that would be, and let me give you a no when I think the conditions, when it would not be.

9 This speaks to a point of a parity. And if in fact GTE today pays for the secondary distribution, this 10 would be after the annual distribution and new people move 11 into the area and they would like a directory, if in fact 12 GTE pays for those costs today and incurs those kind of 13 costs and if in fact they are not already covered in the 14 unavoided cost, then AT&T on the same basis as GTE, we are 15 prepared to say the \$2.59. However, if GTE doesn't pay it, 16 17 then we shouldn't pay it as a point of parity; and if GTE is already recovering that in the unavoided cost, then AT&T 18 should not pay for it twice. 19

Q Okay. And GTE agrees with that position, doesn't 1 it?

22 A I believe they do.

Q Okay. And again, with regard to directory space, the contract proposal you've put forth is consistent with what GTE's proposal; is that correct?

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A Maybe you could be specific.

1

Q Okay. I'm looking at Section 19.3 of the contract, and that pretty much states that GTE will include one full page of information about AT&T's services and AT&T garees to pay a rate equal to, and then there is a blank for the rate, for the inclusion of this full page. So that is consistent with our proposal in this proceeding, isn't it?

9 Α Yes, to the words that were agreed to. And the agreement, just to be clear, is that for customer call 10 quide pages, GTE would provide one page for AT&T to be able 11 to put their reference data in there to be able to direct 12 13 their customers when they need to seek advice on call 14 handling. What we want to be clear of is that we do not 15 expect GTE to put unreasonable restrictions on information 16 that we put on the call page; and as your review of the 17 contract indicates, we are not in agreement on what the 18 price would be.

19 My position is one of parity there as well. And 20 that is, whatever GTE telops would pay for a page, a customer guide information, and they can demonstrate what 21 22 that cost is, that AT&T is prepared to pay that same cost. 23 0 Okay. And with regard to this space, AT&T would 24 agree to one page of information, just as it says in your 25 contract, right?

A Yes.

1

2	• So that's inconsistent again with Mr Carroll's
4	y bo that a mechanistene again with hit carloit b
3	testimony, isn't it? And I can give you a reference. It's
4	page 26, lines 3 and 4. AT&T requested that GTE provide
5	AT&T the same amount and type of space in the directory
6	that GTE provides itself. That's inconsistent with what
7	your contract says, isn't it?
8	A Yes, it is inconsistent as it deals with the same
9	amount. It would be inconsistent if you were to take a
10	look at all cases. I suspect there are some cases where it
11	would be consistent, but I can imagine there were some
12	cases where GTE may in fact have more customer call pages
13	than what AT&T would be. So in terms of the amount of
14	space, there would be some cases where that statement might
15	be inconsistent being that we've agreed to one page.
16	Q Let's talk about CPNI for a few minutes. AT&T
17	believes, does it not, that it should have access to a
18	customer's CPNI even before the customer transfers to AT&T
19	isn't that right?
20	A No, what AT&T is asking for here is that when
21	they have won a customer in the market place and the
22	customer calls AT&T and says that basically for all
23	practical purposes what they want to do is just transfer
24	from GTE to AT&T, they basically want to keep their service
25	the same. And what AT&T would like to do would be able to

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validate that service with the customer so that we are providing good service and there is no opportunity for error on billing and expectation with the customer at the time of implementation.

GTE's position has been here that they want that 5 authorization to be in written form from the customer prior 6 to AT&T would have the opportunity to validate any 7 information. We don't believe that that is the procedure 8 that GTE has for itself as they are dealing with customers 9 who change from one thing to another, and we also believe 10 that we have had industry policies in place relative to 11 these kind of changes in terms of access where you can put 12 13 in processes and procedures that can be audited to support this to make sure everybody is handling the changes 14 15 properly. And AT&T just asks for that kind of procedure to 16 be put in place so that we have the same opportunity to 17 deal with customers as GTE does.

18 CHAIRMAN CLARK: Ms. Caswell, we are going to 19 take a break right now for lunch, and we will reconvene at 20 two o'clock.

I should let everybody know that we will be going late tonight and tomorrow tonight and the next night if necessary, and we will take no more than half-hour breaks at lunch and dinner. We will be back at two o'clock. (RECESS TAKEN AT 1:30 TO 2:00)

CHAIRMAN CLARK: We'll go ahead and reconvene. 1 Ms. Caswell. 2 MS. CASWELL: Thank you. 3 BY MS. CASWELL: 4 Mr. Shurter, I think we were talking about CPNI. 0 5 I just have a few more questions. 6 Α Yes. 7 Does AT&T want CPNI for preordering purposes? Q 8 Yes. 9 А And that means that you would get CPNI before a 10 0 customer was transferred to AT&T; is that true? 11 This would be the case where AT&T had won Α No. 12 the customer in the market place and they had called and 13 said that they would like to have service with us, and at 14 that point in time we would begin the preordering process 15 of validating telephone numbers, feature function, those 16 kind of things, so it would be part of the preordering 17 18 process. And in that preordering process, might there be 19 0 instances when the customer decided not to switch to AT&T 20 after all? 21 Yes, I suppose that could be the case, but what Α 22 we are asking for here is the more probable case that when 23 they've called to us and said that they would like to in 24 25 fact transfer their service to AT&T, what is the support

that AT&T would need to have to be able to handle that
 contact conveniently and accurately for the customer.

Q GTE has agreed, has it not, to provide you with a customer's CPNI as long as it gets written authorization; is that true?

A Yes. The key to that phrase and for
clarification is written authorization. And in our
discussion with GTE, that took the form of actually the
customer writing down on a piece of paper, somehow getting
that piece of paper to AT&T, and then somehow AT&T getting
that piece of paper over to GTE.

12 Q Doesn't the Act itself require affirmative 13 written request by the customer to release CPNI?

A Yes, and I believe that the industry procedures that have been put in place in the past that have supported the access is the kind of procedures that are needed here. Industry participants need to be held accountable for their behavior in their adherence to the policies to protect the privacy of information of customers, and AT&T is absolutely committed to do that.

Q Would you agree that, building on what you've just said, that requiring an ILEC to change a customer's carrier without any written authorization from the customer itself might give rise to slamming problems?

25

A No. I believe having industry standards in place

that have the same kind of process and procedures that we 1 have used in the past and the type of obligation and 2 responsibility of the carriers, that if there is in fact 3 some slamming, as you say, that occurs, that needs to be 4 monitored and dealt with in the industry as we have in the 5 past. 6 So basically a reputable firm could be trusted 7 0 not to slam? 8 I didn't hear your question. 9 Α Has AT&T been reprimanded this year for slamming? 10 0 I do not know. 11 Α Mr. Shurter, would you agree that GTE can't 12 Q authorize you to have access to systems that it doesn't 13 own? 14 CHAIRMAN CLARK: Ms. Caswell, did you say can or 15 16 can't? MS. CASWELL: Can't. 17 So would you restate the question then, please? Α 18 BY MS. CASWELL: 19 Would you agree that GTE cannot authorize you to 20 Q have access to a system it does not own? 21 Yes, I would agree with that. Α 22 Just a couple more questions on CPNI. Are you 23 0 aware that this Commission has its own CPNI rules? 24 I'm not familiar with it in detail. 25 Α C & N REPORTERS TALLAHASSEE, FLORIDA (904) 385-5501

Were you aware that they existed before I asked 0 1 you that question? 2 Α Yes. 3 Did you factor those rules into your policy on Q 4 CPNI in this proceeding? 5 I come to the Commission here based upon the Α No. 6 negotiation, positions that we have taken that we believe 7 are appropriate to support us serving customers that want 8 to choose AT&T in the market place and focus on the parity 9 principle of what would be equal type of treatment for 10 those customers that are being supported by AT&T, and that 11 is the basis of the issue. 12 Thank you, Mr. Shurter. 0 Okay. 13 That is all I have. MS. CASWELL: 14 CHAIRMAN CLARK: Staff. 15 16 CROSS EXAMINATION 17 BY MR. PELLEGRINI: 18 Good afternoon, Mr. Shurter. I'm Charlie 19 0 Pellegrini representing the staff. 20 Good afternoon, Charlie. Α 21 It's GTE's position as expressed in the 22 Q prehearing statement that current tariff provisions are 23 sufficient, those that limit GTE's liability to the charges 24 25 associated with the time out of service, do you agree? Ι

1 mean in the first place do you agree that that is GTE's
2 position?

A Yes, I agree that that is GTE's position.
Q I assume you disagree with that position?
A Yes, I do.

6 Q Can you briefly explain?

In this area of service performance, we are 7 Ά Yes. speaking in terms of the commitments that GTE would be 8 making to AT&T as we are trying to serve our customers, so 9 we would be talking about due-date type of commitments, 10 network being available type of commitments and billing 11 performance type of commitments. So what we have talked 12 about here is establishing standards of performance at 13 those points of interface between AT&T and GTE as a 14 wholesale supporter of our services, so being assured that 15 16 we can get the same quality of service, that they support 17 AT&T in the same way they support GTE is very important to us to be able to ensure that we can provide good service. 18 So we are really looking at those metrics that are focused 19 between the handoffs between GTE and AT&T. 20

Q With respect to consequential damages, it's GTE's further position that if it's to be held liable for consequential damages then its rates must reflect that potential liability. Do you understand that to be GTE's position?

No, only that I'm just not aware of what GTE's 1 Α position is relative to the way that would be handled. 2 0 Well, given that position, given that that is 3 GTE's position, would you consider that to be an 4 appropriate position? That is, should LECs be able to 5 recover the cost of insuring ALECs against loss of revenue? 6 I just have not given that a lot of thought as to Α 7 how that ought to be recovered or even if it should be 8 recovered. And again, what we are looking here is for 9 financial incentives that would motivate GTE to ensure that 10 11 they are providing to new entrants the type of service that they require to be successful. In some ways I might think 12 that providing them another way to recover on those 13 credits, if you will, might lessen the financial incentive, 14 in fact push the burden someplace else in the system. 15 And so their fundamental position, if that is what it is, that 16 17 they ought to recover that through their unavoided, say, total service resale cost or part of the TSLRIC cost, those 18 might be appropriate and logical when you take a look at 19 where you put cost. I'm not so sure that that meets the 20 motivation of a financial incentive, and it's not AT&T's 21 intention here to somehow get money from GTE that 22 23 ultimately finds its way back into the consumer recovery 24 process in Florida.

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Q What you're saying I think then is if there were

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a recovery mechanism that would to some extent at least
 negate the financial incentive, to use your phrase, that --

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A I think it might.

On pages 11 and 12 of Mr. Carroll's direct 0 4 testimony, Mr. Shurter, he talks about several types of 5 performance failures. I'd like to discuss four of these 6 with you one at a time. These four are: Work errors, 7 billing fraud, alterations of software and unauthorized 8 physical attachment to loop facilities. Are you with me? 9 10 Α Okay. Yes.

11 Q First, I would like you to explain these briefly 12 and with the aid of an example or two. First, work errors, 13 what do you mean by -- what do you have in mind with work 14 errors?

Α A work error as an example might be a technician 15 16 working on a central office piece of equipment and they go in there and make an error in that they take out all the 17 central processing capability of the switch and, therefore, 18 19 that switch is off line and all the customers that it does 20 serve would not have service. That would be an example of a work error that would have a very significant impact on 21 22 customers.

Q Is that the type of -- Is that a type of error that commonly occurs?

A Yes, unfortunately, work errors like this do

occur more frequently than the industry would like. It's 1 not rampant, don't let me give you the wrong implication 2 The industry pays a lot of attention to training here. 3 their employees to take care when they are dealing with 4 this kind of sophisticated equipment, but in the end there 5 have been cases, and they do reoccur where situations like 6 I describe. They do occur. 7

8 Q How would you in that case -- how would you in9 that case assign a DMOQ or a DMOQ?

In this case where I'm referring to the central 10 А office piece of a switching equipment, it relies in the 11 area of network reliability, so I think I've identified a 12 13 three kind of category. Service provisioning, that would be one, not this case here; second would be network 14 reliability. So it would be in that category where we 15 16 would take a look at that, and the credits that we had 17 identified in the interconnection agreement that deals with network outage, service interruption, those would be the 18 19 kind that I would apply to that situation.

Q What about billing fraud, what do you have in mind there?

A It's interesting that I can't keep up with all of the creative ways that individuals try to defraud the telephone network, but what I'm thinking of here is that there are two forms of it. One is that there is an end

user with intent to defraud the network, and in that case 1 we would be looking for GTE as the first point of 2 observation of that to be able to identify and take 3 appropriate action to identify the fraud and terminate the 4 There, of course, is the situation where their 5 condition. employee could possibly be committing fraud. In that case, 6 that's a more serious case for them personally, but there 7 could be situations where they could be diverting 8 information that would provide access to the network in a 9 less than -- the price they ought to be paying for it. 10 How much of a problem are these, that is, 11 0 end-user fraud and inside or employee fraud? 12 The majority of the fraud that I think we see in Α 13 the industry is not internal with employees that work in 14 the industry but external, and so in that case it's 15 important. You've got the, all customers out there, not 16 all, but there is a good number of them. You've got a big 17 universe of which fraud could potentially come from. So 18 early detection is key to the stability of the industry. 19 And what kind of liability would you have GTE 20 Q bear for these kinds of misperformances? 21 It would be tied to the amount of revenue that Α 22 was lost. Yes, revenue. 23 Q How about, what about alterations of software? 24 Alterations of software can occur in much of the 25 Α C & N REPORTERS TALLAHASSEE, FLORIDA (904) 385-5501

sophisticated equipment in the network today, not only in 1 switches but also in the transmission equipment. More and 2 more of it is becoming software driven. So alterations of 3 software occur if you are making code changes or generic 4 updates or basically altering the capability of the 5 So there are entry procedures that a technician system. 6 will make to enter in the change of software and to load 7 that into the system, and it is, in fact, at that point 8 9 that you could make an error that would cause a significant problem where -- let me take one from a routing of an MPA 10 or an NNX, basically making it so that you could not route 11 to a complete part of Florida, for example, because the way 12 they went in and made the software change prevented the 13 system from seeing that you could actually direct calls to 14 that area. And that's all set up into the software, 15 programming of the system. That would be an example where 16 the instructions given to the system have been in error 17 modified and, therefore, causing call processing to be 18 different than what was intended. 19

20 Q I assume that lost revenues would be the remedy 21 that you would seek in that instance?

A In this category where we are talking about unbillable and uncollectible it would be because if there was not unbillable, uncollectible, we would not be seeking it.

Are software alterations a major problem? 0 1 They do occur. I don't know if I would treat it 2 Α I would treat it as an error in this area is as major. 3 major. So if you say major relative to frequency of it, 4 the industry has learned to focus on treating these changes 5 with care, but when they do occur, they are significant. 6 And lastly, what about unauthorized physical 7 Q attachment to loop facilities? 8

Yeah, this is a condition that could occur. Here Α 9 you have the loop facility that is going out to the 10 customer premise and could be exposed so that an end user 11 could get access to that and begin to actually get on that 12 facility and make calls that are not their own. And again, 13 if GTE is providing the switch capability here, they would 14 have the capability, either it would be under a TSR or if 15 we bought the unbundled network element switch, to be able 16 to identify the difference in calling patterns, the 17 frequency of that and to be able to detect that and take 18 action on it. 19

20 Q Would you consider those to be direct measures of 21 quality?

A No, I don't consider what we have been talking about here as direct measures of quality, and I would tie that back to such things, like in the category of installation would be due date met. In the area of

maintenance repair, would be an item that repaired within a
 certain time frame. So those direct measures are very
 specific and pertain to the provisioning process and also
 the repair and maintenance process and billing.

5 Q Mr. Shurter, AT&T as an IXC for sometime now, 12 6 years or so, has been operating according to provisions in 7 LEC access tariffs that limit LEC liability to the charges 8 for the period out of service; is that correct?

9 A Yes.

10

Q Has that been a workable arrangement?

11 A Yes, it has, and I believe that in addition to 12 that, the performance standards and credits that have been 13 called for in the interstate access tariffs, and interstate 14 access tariffs further support that.

15 Q You mentioned in response to a question of 16 Ms. Caswell's that AT&T had proposed ADR as a resolution 17 mechanism?

18 A Yes.

19 Q But did I understand you to say that GTE has not 20 agreed to that mechanism?

A It's my understanding that that is one of the
terms and condition in the interconnect agreement that they
have not agreed to.

Q Mr. Shurter, with reference to notification of changes --

A Yes.

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Q -- as a wholesale customer of GTE, what notice
period does AT&T require or consider to be appropriate when
GTE is making a price change?

AT&T seeks a notification period of 45 days, and А 5 that's what we have put in our request. And this would be 6 when GTE was anticipating the introduction of a new service 7 or on an existing service where there was some price 8 9 change. So as part of the total resale service arrangement that we have with them, we believe it is appropriate for us 10 to have a period of notification -- the 45-day is what we 11 12 are requesting -- so that we have a like period of time to enable our systems to be able to support the new services 13 or, and/or to support the new price changes. We request 14 15 this on a basis of equal treatment in terms of parity, that we would like to have the same opportunity to support that 16 as GTE supports for themselves. 17

18 Q And how would you have GTE make that 19 notification?

A We have a customer account team procedure that is in place between AT&T and GTE today. I think there would be appropriate processes that could be put in place with that relationship between them as the supplier. They have an account management structure, that they flow that change to us through that; that would be acceptable to us.

Q Would the notification period be the same for
 changes to features or functions of existing services?
 A Yes, we are asking just for the standard 45-day
 notification.

5 Q And again, what about the manner of notification? 6 A We would like to be notified in an official way 7 so there is no misunderstanding that this has in fact 8 occurred, that the new service is being introduced or the 9 feature of a service is changed or that the price has in 10 fact changed and on what date.

11 Q Would those answers be the same for the 12 introduction of new services?

13 A Yes.

14 Q Same notification period and same manner of 15 notification?

16 A Yes.

17 Q And what about for, how about for notification of18 the introduction of a new technology?

A This would be different, and I believe we are in agreement on this. This would be a longer period of time. You could envision something that is kind of common now that everybody has talked about in the industry, is the introduction of SONET or SONET rings. So if in fact that they were going to make this investment and introduce a whole new technology, that may require a little longer

notification because we are not talking about some incremental change to our system that has been in place; we may have to make some very significant changes, maybe build some new operational support systems, some new engineering systems to be able to deal with the new technology. So we are seeking longer periods of time of notification with technology changes.

Q Discussions are ongoing at the moment on this
9 point, or are you at an impasse?

I believe these are ongoing negotiations. As 10 Α anything that is still open in front of the Commission that 11 we are asking for assistance here, we are trying to 12 continue to advance closure in all of those cases. I think 13 GTE was a little more comfortable with a longer term 14 notification of technology changes than they were of new 15 services, feature function change or price in the 45-day 16 interval. 17

18 Q Turning for just a moment, I have one question 19 concerning customer authorization. What type of customer 20 authorization do you believe is appropriate to access 21 customer account information and transfer existing 22 services?

A Charlie, was the question what authorization orwhat process of authorization?

Q Well, what process, what type of customer

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authorization do you believe to be required under the Act? 1 Okay. I believe that if the customer notifies Α 2 AT&T that they have intended and have the intent that they 3 want to change the service to AT&T, that that authorization 4 to AT&T should be sufficient for us to operate within the 5 industry to be able to make the changes. Now we will need 6 to put processes in place to audit that, make sure we 7 understand what all the rules and procedures are around 8 that to make sure that the procedures in fact followed in 9 an error free way. But I think in terms of supporting 10 competition and customer choice it's very important that we 11 have something that provides for that immediate type of 12 response to a customer's request. 13

14 Q I want to conclude by seeing if we can arrive at 15 a summary of your responses to Ms. Caswell's questions 16 concerning the agreement or lack of agreement concerning 17 electronic interfaces.

18 A Okay.

As I understand -- as I understood your 0 19 responses, you indicated that in respect to resold services 20 that GTE and AT&T had arrived at an interim solution? 21 Yes, that is correct, and that would be Α 22 23 interim -- what we have agreed on is interim step 1. Interim step 1. And again, as I understood, that 24 0 solution would consist of both batch and real-time access; 25

1 is that correct?

A That step 1 system is really comprised more of manual plus batch processing, that first stage.

Q Does it consist of real-time access in any way?
A It could be real-time in that you have a network
data mover, NDM, as the transport between AT&T and GTE for
transmitting the order. So we could speed that up so it
happens more frequently, but it doesn't meet the definition
of real-time.

Q And I further understood that you've not reached an interim agreement with respect to unbundled network elements; is that correct?

13 A That is correct.

Now in respect to permanent solutions to 14 0 electronic interfaces, you have agreements in principle, as 15 I understood, with both -- in respect to both resold 16 17 services and unbundled network elements; is that correct? Yes, we have agreement that GTE will ultimately Α 18 support with electronic interface interactive both total 19 service resale and unbundled network element. The real 20 issue is when and will it be available to support AT&T's 21 market entry in 1997. 22

Q But there is agreement that on a permanent basis the electronic interface would be both real-time and interactive; is that correct?

Yes, conceptually we are at agreement on that. 1 А I think that concludes my questions. 0 2 MR. PELLEGRINI: Thank you, Mr. Shurter. 3 WITNESS SHURTER: Thank you. 4 CHAIRMAN CLARK: Redirect. 5 REDIRECT EXAMINATION 6 BY MR. LOGAN: 7 0 Mr. Shurter, just three or four questions. 8 First, in the early part of your testimony Ms. Caswell 9 asked you a number of questions about indemnification and 10 indemnity agreements. Are these kind of agreements common 11 in the industry today? 12 Yes, we believe that these are common in the 13 Α industry. We believe that they are common as part of 14 commercial contracts arrangements. In fact, we have had, 15 as we have in the past, asked GTE to do our billing of our 16 customer service. We have had those kind of procedures in 17 place, those kind of indemnifications, as they were 18 executing our billing functions for us; and if there was a 19 20 significant error, those kind of procedures had been part of our business relationship in the past. 21 And to follow up a few more questions on the 0 22 interactive electronic interfaces, with respect to the 23 development of those operational interfaces, are these 24 one-time or recurring costs? 25

A I believe that they are more typically one-time costs. So when you say that this is the capability and configuration you want to put in place, there is a one-time cost to put that capability in place, that would be a one-time cost.

6 Q Okay. And how does AT&T propose that these costs7 be recovered?

8 A As I stated earlier, I believe they ought to be 9 recovered in a competitively neutral way in which AT&T will 10 pay a part.

11 Q And once the interfaces are in place, how would 12 recurring costs for the services be paid for by AT&T?

Yes, there will be some recurring charges Α 13 associated with the administration of electronic interfaces 14 and the operational support system. And as they support 15 total service resale, they should be recovered as part of 16 the unavoided cost of part of that service; and to the 17 extent they support unbundled network elements, they should 18 be recovered as part of the TELRIC cost recovered 19 associated with the unbundled network element. 20 MR. LOGAN: No further questions. 21 CHAIRMAN CLARK: Exhibits. 22 MR. LOGAN: AT&T would move exhibit 4. 23 CHAIRMAN CLARK: Without objection exhibit 4 will 24 be entered in the record. 25

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Thank you, Mr. Shurter. 1 WITNESS SHURTER: Thank you all. 2 CHAIRMAN CLARK: Do we have the video with us for 3 the next witness? 4 MR. TYE: I believe it is set up, Madam Chairman. 5 CHAIRMAN CLARK: Okay. 6 MR. TYE: AT&T would call Ray Crafton. 7 8 Whereupon, RAY CRAFTON 9 was called as a witness on behalf of AT&T and, having been 10 duly sworn, testified as follows: 11 DIRECT EXAMINATION 12 BY MR. TYE: 13 Mr. Crafton, have you previously been sworn? 0 14 Yes, I have. Α 15 Okay. Would you please state your name and 16 0 business address for the record? 17 I'm Ray Crafton, I'm located at 1200 Peachtree Α 18 19 Street, Atlanta, Georgia. And by whom are you employed and in what 20 0 capacity, sir? 21 I'm employed by AT&T as the business manager for Α 22 local services in the Southern States. 23 Now Mr. Crafton, did you prepare and cause to be 24 0 prefiled in this proceeding direct testimony consisting of 25 C & N REPORTERS TALLAHASSEE, FLORIDA (904) 385-5501

313 some 37 pages of questions and answers? 1 Yes, I did. 2 Α Did you have two paper exhibits attached to that 0 3 testimony? 4 Α Yes, I did. 5 Okay. Do you have any changes, corrections or 6 0 additions to the testimony or the exhibits that you need to 7 make at this time? 8 Yes, I do. In my direct testimony on page 25, Α 9 line 22, please delete the word "of" appearing at the end 10 of the line. On page 30, line 1, please delete the phrase 11 "because they are a limited resource." That phrase appears 12 later in the sentence in its proper place. 13 In my rebuttal testimony filed September 24, page 14 15 5 --Mr. Crafton, we haven't gotten to that yet, I'm 16 Q 17 sorry. 18 Α I'm sorry. Are those all the changes and corrections you 0 19 need to make to your direct testimony? 20 Α That is correct. 21 Okay. Now with respect to your rebuttal 22 0 testimony, did you prepare some 14 pages of rebuttal 23 testimony? 24 Yes, I did. 25 Α

Q Okay. Now could you give us the changes and
 corrections to that please?

A I'd be glad to. Page 5, line 13, where it reads Were a state commissions including Georgia, Illinois and New York have found, " please replace Georgia with Pennsylvania.

7 On page 7, line 15, where it reads, "The 8 architecture proposed by AT&T in the AT&T-AIN test," please 9 insert BellSouth after the hyphen. Page 7, line 16, where 10 it reads, "Report of November, 1995 concluded that the 11 sharing of subscribed triggers," please insert "public 12 office dial plan" so it reads, "The sharing of public 13 office dial plan and subscribed triggers."

Page 8, line 11, where it reads, "Access to unbundled signaling links and STPs is technically feasible," please insert "SCP data bases" into that list so it reads, "Unbundled signaling links, STPs and SCP data bases is technically feasible."

19 Q Are those all the changes and corrections?
20 A Those conclude the corrections.

Q Now with those changes and corrections noted to your direct and your rebuttal testimony, Mr. Crafton, if I were to ask you the same questions here today, would you give me the same answers contained there?

25 A I would.

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Q Thank you.

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MR. TYE: Madam chairman, I would ask that 2 Mr. Crafton's direct and rebuttal testimony be inserted 3 into the record as though read. 4 CHATRMAN CLARK: It will be inserted in the 5 record as though read. 6 BY MR. TYE: 7 Now Mr. Crafton I believe you indicated that you 0 8 have two paper exhibits to your direct testimony; is that 9 10 correct? That's correct. Α 11 Okay. And those are labeled RC-1 and RC-2; is 12 0 that correct? 13 Correct. Α 14 Were those exhibits prepared by you or under your 15 0 direction and supervision? 16 Yes, they were. 17 Α 18 0 Okay. Do you have any changes or corrections you need to make to either of those exhibits at this time? 19 No, I don't. 20 Α Okay. Now Mr. Crafton, you also have attached to 21 0 your direct testimony and labeled exhibit RC-3, I believe, 22 a CD-ROM; is that correct? 23 That is correct. 24 Α Okay. And is that CD-ROM an electronic version 25 0 C & N REPORTERS TALLAHASSEE, FLORIDA (904) 385-5501

316 of your exhibit RC-2? 1 Yes, it is. Α 2 Okay. Have you reviewed that CD-ROM in its Q 3 entirety? 4 5 А I have. Okay. Is the information contained thereon true Q 6 and accurate to the best of your knowledge? 7 Α Yes, it is. 8 Okay. Thanks. 0 9 MR. TYE: Madam Chairman, I would ask that 10 Mr. Crafton's two paper exhibits, RC-1 and RC-2, be marked 11 as a composite exhibit. 12 CHAIRMAN CLARK: The next exhibit number I have 13 is number 5. 14 (SO MARKED EXHIBIT 5) 15 MR. TYE: Okay. And I would ask that the CD-ROM 16 be, since it's not attached to those two exhibits, be 17 marked as exhibit 6. 18 CHAIRMAN CLARK: It will be marked as exhibit 6. 19 (SO MARKED EXHIBIT 6) 20 MR. TYE: Thank you. 21 22 23 24 25 C & N REPORTERS TALLAHASSEE, FLORIDA (904) 385-5501

#### DIRECT TESTIMONY OF 1 **RAY CRAFTON** 2 AT&T COMMUNICATIONS OF THE SOUTHERN STATES, INC. 3 **BEFORE THE** 4 5 FLORIDA PUBLIC SERVICE COMMISSION DOCKET NO. 960847-TP 6 PLEASE STATE YOUR NAME AND BUSINESS ADDRESS. Q. 7 8 Α. My name is Ray Crafton. My business address is 1200 Peachtree Street, NE, 9 Atlanta, Georgia, 30309-3579. PLEASE DESCRIBE YOUR EDUCATIONAL AND PROFESSIONAL 10 Q. **BACKGROUND AND EXPERIENCE.** 11 I earned a Bachelor of Science degree in Mathematics with a Minor in Computer 12 A. Science at the University of Maryland in 1972. In 1973 I joined Bell Laboratories 13 as a member of the technical staff, where I was responsible for designing telephone 14 operator systems and performing economic and financial analyses on those designs. 15 And in 1974, I earned a Master of Science in Operations Research, a field in which 16 mathematical techniques are applied to solving complex business problems. 17 From that time until 1980, I continued as a member of the technical staff of Bell 18 19 Laboratories, where I participated in the design of various telephone operator system enhancements such as Automated Coin Toll Service (which automates the quotation 20 21 of rates and collection of coins on coin sent paid calls); automatic calling card 22 service (which allows customers to dial their own calling card calls using a personal 23 identification number without operator assistance); and the operator systems enhancements necessary to handle cellular mobile customers' operator calls. 24 In late 1980, I joined the Traffic Network Planning Department of the AT&T 25

General Departments, where I led the development of computerized planning tools 1 used by the Bell Operating Companies to plan the optimal deployment of telephone 2 operator systems. In 1981 I was promoted to District Manager - Traffic Network 3 Planning and began to lead the development of planning guidelines and computer 4 tools for the toll switched network. I also became responsible at that point for 5 project management of Dynamic Non-Hierarchical Routing (DNHR). 6 DNHR allowed AT&T to reduce the number of trunk groups and facility mileage in its 7 inter-toll network by more flexibly routing traffic over idle paths in the network. 8 While project managing DNHR, I was also responsible for AT&T's joint planning 9 10 and joint ownership program with independent telephone companies. This ended in 1983 on the eve of AT&T's divestiture of the Regional Bell Operating Companies. 11 To be successful in this array of assignments, I had to develop a strong knowledge 12 of local networks. After divestiture, I became responsible for AT&T network 13 architecture and recommended applications and enhancements in the 4ESS, 5ESS, 14 15 Digital Access and Cross-connect System and other systems to support AT&T's switched and dedicated services. During this assignment I developed technical 16 regulatory analyses to support Computer Inquiry II and the Open Network 17 Architecture concept for enhanced services. From 1988 to 1993 I led the project 18 management of all technology for AT&T's Signaling System No. 7 network and 19 20 conducted the first interconnection of an inter-exchange carrier and a local exchange 21 carrier signaling network between AT&T and BellSouth. In 1993 I became 22 responsible for strategic access planning, an assignment focused on improving the quality and cost of interexchange access. In 1994 I earned a Masters degree in 23 24 Business Administration from Columbia University. And in 1995 I was promoted to 25 Division Manager - Customer Connectivity Planning, a position responsible for

developing the strategies, methods, computer tools, and plans for AT&T's local and
 access business.

# 3 Q. PLEASE DESCRIBE YOUR CURRENT EMPLOYMENT AND THE SCOPE 4 OF YOUR RESPONSIBILITIES.

- I am the Business Manager for AT&T's Southern States Local Service 5 Α. Organization. My division is responsible for managing the portfolio of local and 6 access products AT&T is introducing in the 9 states of Alabama, Florida, Georgia, 7 Kentucky, Louisiana, Mississippi, North Carolina, South Carolina and Tennessee. 8 My current position is responsible for negotiations with BellSouth and other 9 suppliers and partners that support our local market entry; for the profit and loss of 10 11 the local product portfolio; and for project management of our local market entry 12 program.
- Q. HAVE YOU TESTIFIED PREVIOUSLY BEFORE ANY STATE PUBLIC
   SERVICE COMMISSIONS? IF SO, BRIEFLY DESCRIBE THE
   SUBJECT(S) OF YOUR TESTIMONY.
- A. I testified before the California commission in the late 1980s on the subject of
   technological obsolescence. This was related to the setting of accelerated
   depreciation rates as competition in the inter exchange industry drove faster network
   modernization.

20 Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS 21 PROCEEDING?

A. The purpose of my testimony is to describe the unbundled network elements that AT&T has requested that GTE make available to AT&T, and which GTE, as an incumbent local exchange carrier ("ILEC"), must make available to satisfy the requirements of the Federal Telecommunications Act of 1996 (the "Act").

Specifically, I will: (1) describe unbundling and its role under the Act; (2) identify the twelve elements of GTE's network which AT&T has requested be unbundled and explain why AT&T needs the functionalities of these unbundled network elements in order to be competitive in the provision of local services; (3) explain why AT&T must be allowed to combine unbundled network elements as needed to provide consumers with choices for local service; and (4) identify those network elements and other requirements that GTE has refused to make available to AT&T, and discuss why each is technically feasible and necessary to effectuate the Act's procompetitive purpose.
 I. INTRODUCTION
 Q. WHY DID AT&T REQUEST ARBITRATION ON UNBUNDLED NETWORK

#### 12 ELEMENTS?

Α. AT&T requested arbitration on unbundled network elements because GTE refuses to provide access to all of the unbundled network elements and combinations that AT&T requested in its proposed Interconnection Agreement. AT&T's proposed Interconnection Agreement is Attachment 2 to AT&T's Petition For Arbitration, filed today. GTE's position rests in large part on the belief that it is not required under the Act to provide unbundled network elements and interconnection under terms and conditions which are equal to those GTE provides itself. GTE also refuses to offer certain unbundled network elements to AT&T because GTE claims that it is not technically feasible to do so. In addition, GTE has placed restrictions on how AT&T may use the unbundled network elements, and on the collocation of equipment in GTE's offices. These restrictions not only are contrary to what the Act explicitly requires of GTE, but also would prevent AT&T from offering consumers a choice in local telephone services. Lastly, GTE refuses to provide AT&T with

several additional requirements AT&T needs to utilize these unbundled network
 elements in the provision of local services.

In summary, GTE's position will result in a scenario that is wholly insufficient and 3 inadequate to meet the business needs for the provision of services AT&T seeks to 4 offer. AT&T intends to buy unbundled network elements and to use those elements 5 either alone, or together with services purchased for resale, or with AT&T's own 6 facilities or with third party-owned facilities, to provide retail services in Florida. 7 Were the Commission to adopt GTE's position on unbundled network elements, it 8 9 would make it impossible for AT&T to compete fully in the local market, leaving consumers without the benefits Congress intended. 10

#### 11 Q. WHAT DOES "UNBUNDLED NETWORK ELEMENT" MEAN?

Under the Act, GTE is obligated "to provide, to any requesting telecommunications 12 Α. carrier for the provision of a telecommunications service, nondiscriminatory access 13 to network elements on an unbundled basis at any technically feasible point on rates, 14 terms and conditions that are just, reasonable and nondiscriminatory." 47 U.S.C. § 15 251(c)(3). This section further directs GTE to "provide such unbundled network" 16 elements in a manner that allows requesting carriers to combine such elements in 17 18 order to provide such telecommunications service." Id. The Act defines a network element to be " a facility or equipment used in the provision of a 19 telecommunications service," including the "features, functions, and capabilities 20 that are provided by means of such facility or equipment, including subscriber 21 numbers, databases, signaling systems, and information sufficient for billing and 22 collection or used in the transmission, routing, or other provision of a 23 24 telecommunications service." 47 U.S.C. § 153(29).

25 An unbundled network element results from identifying and disaggregating the local

exchange network into a set of elements or basic network functions, which can be individually provided, costed, priced, maintained, and combined in such a way as to provide service offerings. The unbundled network elements either can be physical facilities and/or features, functions, and capabilities provided by those facilities. Unbundled network elements are the piece parts of the network whose functionality is required to provide AT&T the network features and capabilities it needs to offer competitive services for the benefit of consumers.

## 8 Q. WILL THE DESCRIPTION OF UNBUNDLED NETWORK ELEMENTS 9 PROVIDED IN THIS TESTIMONY CHANGE OVER TIME?

A. Yes. While AT&Ts present minimum set of network elements are described below,
unbundling is not a static concept. As local competition develops, specific carrier
needs, market developments, or advances in technology used to provide services
will create additional circumstances warranting further unbundling. Thus, AT&Ts
list of unbundled network elements is not meant to be exhaustive, but instead should
be viewed as the "baseline" unbundling immediately required under the Act.

#### II. AT&T'S REQUESTS FOR UNBUNDLED NETWORK ELEMENTS

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# 17 Q. WHAT ARE THE UNBUNDLED NETWORK ELEMENTS THAT AT&T 18 HAS REQUESTED FROM GTE?

A. AT&T has requested that GTE make the following unbundled network elements available under the terms of AT&T's Interconnection Agreement. Attached as Exhibit RC-1 to my testimony is a schematic depicting the local network. Attached as Exhibit RC-2 is a series of graphic representations of the twelve requested unbundled network elements and the use of each in providing local services to consumers. Exhibit RC-3 is a CD-ROM presentation depicting the local network, its component unbundled elements, and the functionality of each element. Today, these

I		elements are available exclusively or almost exclusively from GTE, and must be				
2		unbundled and made available for use by AT&T either individually or in a				
3		combination with other elements:				
4		1. Network Interface Device				
5		2. Loop Distribution				
6		3. Loop Concentrator/Multiplexer				
7		4. Loop Feeder				
8		5. Local Switching				
9		6. Operator Systems				
10		7. Dedicated Transport				
11		8. Common Transport				
12		9. Tandem Switching				
13		10. Signaling Link Transport				
14		11. Signal Transfer Points				
15		12. Service Control Points/Databases				
1 <b>6</b>	Q.	PLEASE DESCRIBE THE LOCAL LOOP FACILITY.				
17	A.	The Local Loop Facility provides a transmission pathway between the subscriber's				
18		residence or business and his or her local central office. The Local Loop Facility				
19		can be subdivided into four sub-loop network elements: (1) the Network Interface				
20		Device, (2) Loop Distribution, (3) the Loop Concentrator/Multiplexer, and (4) the				
21		Loop Feeder.				
22		1. <b>NETWORK INTERFACE DEVICE</b>				
23	Q.	PLEASE DEFINE THE NETWORK INTERFACE DEVICE AND ITS				
24		FUNCTION.				
25	A.	The Network Interface Device ("NID") is the physical location where facilities from				

the customer's local service provider connects to the inside wiring at the customer premises. The NID also provides a protective ground connection for the Loop. For further description and the technical and interface requirements for the NID, see AT&T's Interconnection Agreement, § 33.9.1, and Attachment 2, § 2.1.

#### 5 Q. PLEASE EXPLAIN THE NEED FOR UNBUNDLING THE NID.

AT&T requires access to the NID to connect efficiently with the inside wiring at the 6 Α. customer premises. Without access to GTE's NID, AT&T and other new entrants 7 will not be able to make use of any existing spare terminals in GTE's NID, or lift 8 GTE's Loop Distribution wire within the NID in order to ground that wire, thereby 9 making terminals available for use by the new entrants. Without unbundling the 10 NID, AT&T and other new entrants that provide their own Loop Distribution 11 12 facilities would be required to install their own NID on the customer premises (including hanging a new box and fishing for the wires in the walls) each time the 13 customer changed his or her local service provider. Access to the unbundled NID 14 also is necessary to connect AT&T with the electrical grounding of the 15 16 telecommunications interface to the customer premises.

17

#### 2. LOOP DISTRIBUTION

#### 18 Q. PLEASE DEFINE LOOP DISTRIBUTION AND ITS FUNCTION.

19 A. Loop Distribution is the network element that connects the customer to the local 20 network by connecting the customer's NID to either the Feeder Distribution 21 Interface or the Loop Concentrator/Multiplexer. The Feeder Distribution Interface 22 is a device that terminates the Loop Distribution and the Loop Feeder, and cross-23 connects them in order to provide a continuous transmission path between the NID 24 and a telephone company central office. For loop plant that contains a Loop 25 Concentrator/Multiplexer, the Loop Distribution may terminate at the Feeder

Distribution Interface (if one exists), or at a termination and cross-connect field 1 associated with the Loop Concentrator/Multiplexer. This termination and cross-2 connect field may be in the form of an outside plant distribution closure, remote 3 terminal or fiber node, or an underground vault. The Loop Distribution may be 4 5 copper twisted pair cable, coax cable, or single or multi-mode fiber optic cable. For 6 further description and the technical and interface requirements for Loop 7 Distribution, see AT&T's Interconnection Agreement, § 33.9.1, and Attachment 2, § 8 2.2.

#### 9 Q. EXPLAIN THE NEED FOR UNBUNDLING LOOP DISTRIBUTION.

10 Α. AT&T requires unbundling of Loop Distribution, for example, where AT&T 11 deploys local fiber rings and its own switches, but does not own the facilities to span 12 the "last mile" to the customer premises. In this scenario, AT&T could use its fiber 13 rings to transport traffic between its central office and GTE's Loop Distribution, in 14 conjunction with a Loop Concentrator/Multiplexer, to deliver traffic between 15 AT&T's central office and the customer premises. In addition, in some settings, 16 particularly apartment developments and office buildings. Loop the 17 Concentrator/Multiplexer is located in the building itself. Accordingly, use of GTE's Loop Concentrator/Multiplexer and Loop Distribution plant may be the most 18 19 efficient way for AT&T to reach individual customers in these situations.

20

#### 3. LOOP CONCENTRATOR/MULTIPLEXER

21 Q. PLEASE DEFINE THE LOOP CONCENTRATOR/MULTIPLEXER AND
22 ITS FUNCTION.

A. The Loop Concentrator/Multiplexer is the network element that provides several
 functions needed to assist in transmitting calls across the network. It converts
 analog signals coming in from customers to digital signals that are sent across the

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network. It also concentrates the traffic from the many lines coming in from endusers to fewer lines going out to the central office. Lastly, to accommodate large volumes of traffic using fewer facilities, the Loop Concentrator/Multiplexer intersperses the digital signals from calls into one high speed digital signal. For further description and the technical and interface requirements for the Loop Concentrator/Multiplexer, see AT&T's Interconnection Agreement, § 33.9.2, and Attachment 2, § 3.

#### 8 Q. EXPLAIN THE NEED FOR UNBUNDLING THE LOOP

#### 9 CONCENTRATOR/MULTIPLEXER.

AT&T needs access to GTE's unbundled Loop Concentrator/Multiplexer because it 10 Α. provides capabilities that are crucial to AT&T's ability to efficiently access its 11 12 customers in various circumstances. In order to assure that carriers which need only 13 the concentrator/multiplexer and feeder functionality (for example, where AT&T 14 buys distribution from a cable television provider) do not pay for the loop distribution functions, and also to assure that carriers which need only the 15 concentrator/multiplexer and loop distribution functions (for example, where AT&T 16 uses its fiber rings to transport traffic between its central office and the customer) 17 are not required to pay for the loop feeder functions, GTE should be required to 18 unbundle the Loop Concentrator/Multiplexer element from each of the other loop 19 elements. This will effectively permit AT&T to purchase only the specific functions 20 21 required to provide local services to consumers.

22

#### LOOP FEEDER

4.

#### 23 Q. PLEASE DEFINE THE LOOP FEEDER AND ITS FUNCTION.

A. The Loop Feeder connects the customer lines at the Feeder Distribution Interface or
 the Loop Concentrator/Multiplexer, if one is in place, with the local central office.

For further description and the technical and interface requirements for the Loop Feeder, see AT&T's Interconnection Agreement, § 33.9.3, and Attachment 2, § 4.

#### **3** Q. EXPLAIN THE NEED FOR UNBUNDLING THE LOOP FEEDER.

A. AT&T needs unbundled access to the Loop Feeder to gain access to its customers in
situations where it has deployed its own distribution plant or has purchased that
functionality from another vendor, but will use GTE's Feeder capabilities (with or
without GTE's Loop Concentrator/Multiplexer) to transport traffic to and from
GTE's central office . This might occur, for example, where AT&T wires a new
housing subdivision or corporate campus complex, but does not have its own switch
or its own transmission facilities to that switch.

11

#### 5. LOCAL SWITCHING

#### 12 Q. PLEASE DEFINE LOCAL SWITCHING AND ITS FUNCTION.

Local Switching is the network element that provides many of the fundamental 13 Α. 14 functionalities of the local network. Among other key functions, it provides the customer with dialtone for each line; provides customer features such as call waiting 15 16 and call forwarding; provides for the proper routing of a call; provides access to 17 Advanced Intelligence Network ("AIN") triggers to customize call processing; and creates data necessary to compile a customer's bill. Local Switching also provides 18 the functionality to connect the appropriate originating lines or trunks to a desired 19 terminating line, platform, or trunk. Local Switching thus includes all of the 20 21 features, functions, and capabilities that any GTE switch is capable of providing.

In addition to this voice transmission capability, the Local Switching network element also provides a second capability -- data switching. Data switching is used to terminate, concentrate, and switch data traffic from customer premise equipment to its final destination in a digital format. Access to the unbundled Local Switching

network element includes the freedom for AT&T, as needed, to buy access to either of the two capabilities this element provides. For further description and the technical and interface requirements for Local Switching, see AT&T's Interconnection Agreement, § 33.9.4, and Attachment 2, § 5.

#### 5 Q. EXPLAIN THE NEED FOR UNBUNDLING LOCAL SWITCHING.

A. Unbundled Local Switching is key to the efficient creation of new and improved
services for consumers. Local Switching is the entity within the network that holds
many of the functionalities that will allow AT&T to provide innovations to
consumers and differentiate itself from its competitors. Therefore, AT&T needs the
option either to buy this unbundled network element from GTE or, alternatively, to
provide its own local switch element when building such a facility is the most
efficient solution.

13

#### 6. **OPERATOR SYSTEMS**

#### 14 Q. PLEASE DEFINE OPERATOR SYSTEMS AND ITS FUNCTION.

A. Operator Systems provides operator and automated call handling and billing, special
 services, customer telephone listings, and optional call completion services.
 Operator Systems provides two types of capabilities: Operator Services and
 Directory Services, each of which are described in detail below.

Operator Services provides: (1) operator handling for call completion (for example,
 collect, third number billing, and manual credit card calls); (2) operator or
 automated assistance for billing after the customer has dialed the called number (for
 example, credit card calls); and (3) special services including, but not limited to,
 Busy Line Verification and Emergency Line Interrupt, Emergency Agency Call,
 Operator-assisted Directory Assistance, and Rate Quotes.

25 Directory Services includes storing and maintaining customer information and

providing local customer telephone number listings with the option to complete the call at the caller's discretion. For further description and the technical and interface requirements for Operator Systems, see AT&T's Interconnection Agreement, § 3.9.5, and Attachment 2, § 6.

#### 5 Q. EXPLAIN THE NEED FOR UNBUNDLING OPERATOR SYSTEMS.

Unbundled Operator Systems will benefit consumers by allowing AT&T to create 6 Α. new services (such as foreign language dependent services and innovations based on 7 voice recognition capabilities) as well as by combining AT&T's world-class 8 9 operator services platform with GTE's switches. In order for AT&T to attract customers, it must provide a full complement of local services, including services 10 that rely upon Operator Systems. Many new entrants may not be able to duplicate 11 the entire range of GTE's Operator Systems functionality and therefore would 12 require the use of GTE's unbundled Operator Systems platforms. At the same time, 13 14 some new entrants, such as AT&T, that have already invested or will choose to invest in Operator Systems should be permitted to maximize the value of such 15 investments and not be required to purchase the use of GTE's Operator Systems 16 17 when using the unbundled GTE Local Switching element.

#### 18 Q. PLEASE DESCRIBE THE TRANSPORT NETWORK ELEMENTS.

A. The next three network elements are Transport elements. Transport elements provide the functionality to connect, for example, a central office or Tandem Switch with another central office, Tandem Switch or a interexchange carrier's Point of Presence. The central offices, Tandem Switches and Points of Presence may belong to the subscribing new entrant, other entrants, interexchange carriers, and/or the incumbent LEC. This allows subscribers to reach each other even when they are not served out of the same central office or by the same carrier. There are three

1		Transport network elements that must be made available on an unbundled basis			
2		Dedicated Transport, Common Transport, and Tandem Switching.			
3		7. DEDICATED TRANSPORT			
4	Q.	PLEASE DEFINE DEDICATED TRANSPORT AND ITS FUNCTION.			
5	A.	Dedicated Transport is an interoffice transmission path between AT&T designated			
6		locations, such as GTE's central offices or other equipment locations, AT&T			
7		network components, and other carrier network components. Dedicated Transport is			
8		used exclusively by a single carrier for the transmission of its traffic. For further			
9		description and the technical and interface requirements for Dedicated Transport,			
10		see AT&T's Interconnection Agreement, § 33.9.7, and Attachment 2, § 8.			
11		8. <u>COMMON TRANSPORT</u>			
12	Q.	PLEASE DEFINE COMMON TRANSPORT AND ITS FUNCTION.			
13	A.	Common Transport is an interoffice transmission path that links together unbundled			
14		network elements and carries the traffic of more than one carrier. It provides this			
15		path only for the duration of the connection. For further description and the			
16		technical and interface requirements for Common Transport, see AT&T's			
17		Interconnection Agreement, § 33.9.6, and Attachment 2, § 7.			
18		9. TANDEM SWITCHING			
19	Q.	PLEASE DEFINE TANDEM SWITCHING AND ITS FUNCTION.			
20	A.	Tandem Switching is the network element that establishes a communications path			
21		between two central offices through a third central office (the Tandem Switch).			
22		This path lasts only for the duration of the connection. Tandem Switching is used			
23		when it is either impractical or uneconomical to connect multiple central offices			
24		and/or Points of Presence directly to each other. For further description and the			
25		technical and interface requirements for Tandem Switching, see AT&T's			

Interconnection Agreement, § 33.9.11, and Attachment 2, § 12.

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## 2 Q. EXPLAIN THE NEED FOR UNBUNDLING THE TRANSPORT NETWORK 3 ELEMENTS.

Unbundling the three Transport network elements described above will benefit Α. 4 consumers by allowing AT&T and other new entrants to make economically 5 efficient decisions concerning investment in network interconnections and facilities 6 needed to exchange traffic with GTE, other local exchange carriers, and 7 8 interexchange carriers. AT&T and other new entrants may use the various 9 Transport network elements to connect any two network components to one another, 10 be they GTE's unbundled network elements, AT&T facilities, or third-party facilities. The choice AT&T will make between buying Dedicated Transport, on the 11 12 one hand, and Common Transport and Tandem Switching on the other, will be driven by the relative cost of the options and the amount of traffic that will be 13 carried. 14

#### 15 Q. PLEASE DESCRIBE THE SIGNALING NETWORK ELEMENTS.

16 Α. Signal System 7 ("SS7") signaling is used in the call set-up process to pass information on the routing and billing of calls within a carrier's network and 17 18 between carriers. For example, signaling systems are used to provide validation and 19 other information for calling card and other operator services calls, and to route 800 20 number calls to the correct carrier and end user. Signaling systems also enable 21 carriers to efficiently create and provide AIN services which will add calling 22 features and value to consumers. Network signaling is provided through the use of 23 three network elements that should be made available on an unbundled basis --24 Signaling Link Transport, Signal Transfer Points, and Service Control 25 Points/Databases.

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### SIGNALING LINK TRANSPORT

2	Q.	PLEASE DEFINE SIGNALING LINK TRANSPORT AND ITS FUNCTION.			
3		A Signaling Link is a set of Dedicated transmission paths which carry signaling			
4		messages between carriers' central office switches and signaling networks. For			
5		further description and the technical and interface requirements for Signaling Link			
6		Transport, see AT&T's Interconnection Agreement, § 33.9.8.1, and Attachment 2, §			
7		9.			
8		11. SIGNAL TRANSFER POINTS			
9	Q.	PLEASE DEFINE SIGNAL TRANSFER POINTS AND THEIR FUNCTION.			
10	A.	Signal Transfer Points are signaling message switches that interconnect Signaling			
11		Links to route signaling messages between central office switches and databases.			
12		For further description and the technical and interface requirements for Signal			
13		Transfer Points, see AT&T's Interconnection Agreement, § 33.9.9, and Attachment			
14		2, § 10.			
15		12. SERVICE CONTROL POINTS/DATABASES			
16	Q.	PLEASE DEFINE SERVICE CONTROL POINTS/DATABASES AND THEIR			
1 <b>7</b>		FUNCTION.			
18	A.	Databases are the network elements that provide the functionality for storage of, and			
19		access to, information required to offer a particular basic telecommunications			
20		service and/or capability. A Service Control Point (SCP) is a specific type of			
21		database that contains customer and/or carrier-specific routing, billing, or service			
22		instructions to be acted on by carriers' central office switches and operator systems.			
23		The SCP executes the services application logic in response to SS7 queries sent to it			
24		by a central office switch. SCPs also provide operational interfaces to allow for			
25		provisioning, administration, and maintenance of subscriber data and service			

application data (e.g., an 800 database stores customer record data that provides
 information necessary to route 800 calls). For further description and the technical
 and interface requirements for Service Control Points/Databases, see AT&T's
 Interconnection Agreement, § 33.9.10, and Attachment 2, § 11.

#### 5 Q. EXPLAIN THE NEED FOR UNBUNDLING NETWORK SIGNALING.

6 Α. SS7 signaling is critical in the provision of modern telecommunications services 7 because it enables different providers' networks to set up calls to one another, 8 thereby allowing a customer on one provider's network to communicate with a Unbundling the Signaling network 9 customer on another provider's network. elements will allow AT&T to provide signaling capabilities using combinations of 10 GTE's, AT&T's, and potentially, third-party owned signaling elements to support 11 AT&T's end user's originating and terminating traffic and advanced features. The 12 unbundled Signaling network elements are particularly important to consumers in 13 14 the competitive local services market because they permit efficient interconnection 15 and calling between networks without additional Post Dial Delay and will enable 16 AT&T to introduce innovative, competitive services with shorter development and delivery time. 17

AT&T must be able to determine how it will obtain its signaling network. Because of the high costs of deploying, maintaining and interconnecting a signaling network, AT&T requires the option to purchase these elements, either alone or in combination, from GTE or from other suppliers.

## Q. WHAT ARE THE FCC MINIMUM PRESCRIBED ELEMENTS AND HOW DO THEY COMPARE TO AT&T'S REQUEST FOR 12 ELEMENTS?

A. The FCC, in its Report and Order No. 96-325 ("Order"), requires incumbent LECs
to provide a minimum of seven (7) unbundled network elements and any additional

- 1 unbundling requirements beyond those specified that a state commission might 2 impose. The seven network elements that the FCC specified correspond to the 3 network elements that AT&T has requested to be unbundled in the following 4 fashion:
- 5 <u>Network Interface Device (NID)</u>: The FCC has required the NID to be an 6 unbundled network element as AT&T has requested.
- Local Loop: The FCC has ordered this element, which consists of a combination of
  the three sub-loop elements (other than the NID) that AT&T has requested access to
  as unbundled network elements.
- 10 Switching Capability: The FCC has included in this unbundled network element 11 two functionalities requested by AT&T. The first functionality includes local switching, including all vertical features and any technically feasible customized 12 routing functions. The FCC declined to include data switching in its definition of 13 Local Switching as a national network element due to the limited number of 14 15 commenters on the issue. This offers an opportunity for the Florida Commission to 16 demonstrate its ability to provide for the competitive needs of the citizens of Florida by identifying data switching as an additional unbundled network element for the 17 18 state of Florida. The second functionality is Tandem Switching.
- Operator Systems: The FCC has required this to be an unbundled network element
   as AT&T requested.
- Interoffice Transmission: The FCC has included in this unbundled network element
   the functionalities of Dedicated and Common Transport requested by AT&T.
- 23 <u>Signaling Networks and Call-Related Databases</u>: The FCC has included in this
   24 unbundled network element the functionalities of Signaling Link Transport,
   25 Signaling Transfer Point (STP), and Signaling Control Point (SCP)/Databases

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1 requested by AT&T. The FCC has required incumbent LECs to provide access to their call-related databases for the purpose of switch query and database response 2 through the SS7 network. These call-related databases include the LIDB, Toll Free 3 Calling and AIN databases This interconnection, however, must be through the call-4 related database's associated STP. The FCC also has required unbundled access to 5 the service management systems (SMS), which allow competitors to create, modify, 6 or update information in call-related databases. Additionally, the FCC ordered the 7 incumbent LECs to provide new entrants with the same access to design, create, test, 8 9 and deploy AIN-based services at the SMS that the incumbent LEC provides for 10 itself. As for third party call-related databases, the FCC declined to require a 11 national unbundled network element, again due to the small number of commenters on that issue. However, the FCC stated that state commissions could find such an 12 13 arrangement to be technically feasible.

14 Operations Support Systems: The FCC has ordered that they be treated as a separate 15 unbundled network element. Although AT&T had not requested access to these 16 systems and the information that they contain as a separate network element, AT&T 17 has requested that GTE provide the functionalities of the FCC's designated element 18 as a necessary requirement to support AT&T's access to other unbundled network 19 elements and services.

20 Thus, the FCC Order establishes the reasonableness of the unbundled network 21 elements requested by AT&T

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#### **III.** USE OF UNBUNDLED NETWORK ELEMENTS

Q. SHOULD THERE BE ANY RESTRICTIONS ON AT&T'S ABILITY TO
 COMBINE GTE'S UNBUNDLED NETWORK ELEMENTS IN AT&T'S
 PROVISION OF LOCAL SERVICES?

Α. No. GTE must not be allowed to place any restrictions on AT&T's use of GTE's 1 unbundled network elements, either alone, in combinations, or in conjunction with 2 services purchased for resale or with AT&T's or a third-party's facilities. The Act 3 mandates that GTE "shall provide such unbundled network elements in a manner 4 that allows requesting carriers to combine such elements in order to provide such 5 telecommunications service." 47 U.S.C. § 251(c)(3). The FCC has reinforced this 6 requirement by specifying the incumbent's duty not to "impose limitations, 7 8 restrictions, or requirements on requests for, or the use of, unbundled network elements that would impair the ability of a requesting telecommunications carrier to 9 10 offer a telecommunications service in the manner the requesting telecommunications carrier intends." 47 C.F.R. § 51.309(a). Consistent with the Act and regulation, 11 12 AT&T must have the greatest possible flexibility in using GTE's unbundled network elements to address the features, functions, and services needs of its customers. This 13 14 is so for several reasons.

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First, AT&T must have the ability to provide a former GTE customer with the same services that customer received from GTE, if the customer so chooses. The most efficient way to accomplish this may be for AT&T to combine the functionality of several of GTE's unbundled network elements to provide such services.

19 Second, AT&T must be able to purchase and combine GTE's unbundled network 20 elements to foster innovation in the provision of services to consumers. By 21 combining functionalities of these elements, AT&T may be able to create new and 22 improved services that GTE was unable or unwilling to provide to its customers.

Third, AT&T must be able to purchase individual unbundled network elements
 and/or combinations of elements to supplement its own network with the network
 functionality AT&T cannot yet provide economically itself or through a third party.

The purchase of the functionality of these unbundled network elements will allow AT&T to compete in a given market without the expenditure needed to duplicate GTE's network capabilities.

Lastly, restrictions on AT&T's ability to combine GTE's unbundled network elements are unnecessary because existing industry standards will be utilized in combining these elements. Thus, there are no technical impediments to combinations of technically feasible elements.

8 Q. PLEASE PROVIDE SOME EXAMPLES OF COMBINATIONS OF GTE'S
 9 UNBUNDLED NETWORK ELEMENTS AT&T MAY CHOOSE TO
 10 UTILIZE.

11 Α. One example of a combination of unbundled network elements AT&T may utilize to 12 bring the benefits of competition to consumers is the Loop/Switching combination, 13 sometimes called the "platform." The Loop/Switching combination is made up of 14 the four sub-loop elements (the Network Interface Device, Loop Distribution, the 15 Loop Concentrator/Multiplexer, and the Loop Feeder), the Local Switching element, 16 and selected Signaling and Transport elements. AT&T will order this combination 17 of contiguous network elements on an individual line/customer basis. For this example, AT&T must have the option to purchase or not purchase GTE's Operator 18 19 Systems network element as warranted.

For existing GTE customers who simply want AT&T as their local service provider, the Loop/Switching combination will allow the change without requiring any physical change in the existing GTE network infrastructure. In addition, use of the Loop/Switching combination will not require AT&T to collocate any equipment in GTE's central office for customers served via this example.

25 A second example of a combination of unbundled network elements AT&T may

choose to purchase from GTE is the combination of the four sub-loop elements (a "contiguous loop"). This combination will allow AT&T to reach the customer premises when, for example, AT&T is providing its own central office switch, transport, and signaling. The FCC's rules accommodate this combination in the definition of the "NID" and "Local Loop" elements. 47 C.F.R. § 51.319(a), (b). Another combination that AT&T may need to purchase would include the NID, Transport, and Signaling elements. This combination would be needed where AT&T provides its own loop and central office switch.

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#### IV. ISSUES IN DISPUTE

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 Q.
 PLEASE DESCRIBE THE DISPUTE BETWEEN AT&T AND GTE

 11
 REGARDING AT&T'S ACCESS TO GTE'S UNBUNDLED NETWORK

 12
 ELEMENTS.

A. Although GTE and AT&T have reached agreement on a limited number of issues
with regard to the identification of network elements, GTE refused to address
seriously AT&T's request for unbundled network elements because AT&T would
not agree, in the first instance, to GTE's position regarding pricing. GTE has agreed
to provide access only to those unbundled network elements which GTE is already
providing through tariffs.

Beyond these elements, GTE claims, first, that the functionalities requested by AT&T are not unbundled network elements under the Act. This position is simply wrong. Each element requested by AT&T fits the Act's definition of "feature, functions, and capabilities...used in the transmission, routing or other provision of a telecommunications service." 47 U.S.C. § 153(29). GTE's second argument is that it is not technically feasible to unbundle some of the network elements requested by AT&T. The fallacy in this position lies in GTE's definition of technical feasibility, which appears to be that providing access to unbundled network elements is technically feasible only when GTE can provide such access without doing anything at this time. Thus, in GTE's view, the need for GTE to make any logistical, procedural, or operational adjustment to its routine practices in order to provide AT&T access to an unbundled network element renders that access technically infeasible.

#### 7 Q. WHAT IS THE CORRECT DEFINITION OF TECHNICAL FEASIBILITY?

8 A. The FCC, in its recent revisions to Title 47 of the Code of Federal Regulations
9 pursuant to the Act, defines technical feasibility in this way:

"Interconnection, access to unbundled network elements, 10 11 collocation, and other methods of achieving interconnection or access to unbundled network elements at a point in the 12 13 network shall be deemed technically feasible absent 14 technical or operational concerns that prevent the 15 fulfillment of a request by a telecommunications carrier for 16 such interconnection, access, or methods. A determination 17 of technical feasibility does not include consideration of 18 economic, accounting, billing, space, or site concerns, 19 except that space and site concerns may be considered in 20 circumstances where there is no possibility of expanding the 21 space available. The fact that an incumbent LEC must 22 modify its facilities or equipment to respond to such request 23 does not determine whether satisfying such request is 24 technically feasible. An incumbent LEC that claims that it cannot satisfy such request because of adverse network 25

1			reliability impacts must prove to the state commission by				
2		clear and convincing evidence that such interconnection,					
3			access, or methods would result in specific adverse network				
4			reliability impacts." 47 C.F.R. § 51.5.				
5		Thus, GTE's notion that it can claim technical infeasibility based simply on its					
6		unwillingness to make any necessary logistical, procedural, or operational					
7		adjustment is incorrect.					
8	Q.	HOW DID AT&T ADDRESS TECHNICAL FEASIBILITY IN SELECTING					
9		THE	UNBUNDLED NETWORK ELEMENTS IT REQUESTED FROM GTE?				
10	A.	Asid <b>e</b>	from being the basic building blocks required to provide customers with a				
11		local network, AT&T recognized the need to develop a list of unbundled network					
12		elements that would meet the test of technical feasibility, and be uniform across					
13		networks and consistent with existing network architectures. Accordingly, AT&T					
14		used the following requirements to identify the network elements:					
15		1.	Each network element must be measurable and billable or have the				
16			potential to be measurable and billable.				
17		2.	Each network element must utilize transmission or switching protocol				
18			and physical interconnection standards, either existing or under				
19			development, that are recommended by an acknowledged industry body.				
20		3.	Each network element must have the potential to be provisioned by a				
21			competitive service provider that is, they represent discrete, stand-alone				
22			physical or logical elements.				
23		4.	Each network element must have the potential to be ordered in				
24			combination with any other network elements to facilitate the				
25			development of a competitive service offering.				

### Q. WHICH UNBUNDLED NETWORK ELEMENTS DOES GTE REFUSE TO

#### PROVIDE TO AT&T?

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A. The following are the elements, capabilities, or combinations of elements GTE refuses to provide to AT&T, along with GTE's reasons for its refusal, and AT&T's position with respect to each.

Local Loop Facility: AT&T proposed that the local loop be divided
into four sub-loop elements which can be offered separately or in combination.
These elements are the NID, Loop Distribution, Loop Concentrator/Multiplexer, and
the Loop Feeder. GTE has agreed to provide the NID, but has not provided any
pricing for that element.

On July 18, GTE and AT&T subject matter experts reached tentative agreement that 11 12 GTE would initially provide a combination of the other three sub-loop elements, and 13 that it would in the future provide the three individually as the market demand is ascertained on an individual case basis. GTE acknowledged that it was technically 14 15 feasible to provide the requested sub-loop elements. However, GTE asserted that it 16 would be very expensive to do so (although GTE provided no costs or proposed 17 rates) and expressed its doubt that there was a sufficient market demand to justify 18 the cost of providing these elements. GTE later withdrew its tentative proposal, and took the position that it is technically infeasible to provide access to the sub-loop 19 elements AT&T has requested. 20

Under the FCC's definition of technical feasibility, GTE has failed to demonstrate that unbundling each of these network elements is not technically feasible. In fact, <del>of</del>this technical feasibility exists because the technical specifications for establishing interconnection with the sub-loop network elements are documented in various existing industry technical publications. See AT&T's Interconnection Agreement, 1

Attachment 2, § 2.1.3.

2. Access to Local Switching: GTE has taken the position that it will 2 provide only limited switching capabilities as a part of its "port" offer. The "port" 3 offer would limit the available switching features to those that GTE chooses to offer 4 5 to its own retail customers, even though other capabilities are provided by software 6 that is resident in GTE's local switch and thus are a part of the functionality of the switch. The Act requires GTE to make available to AT&T nondiscriminatory access 7 to all of the features, functions, and capabilities of the GTE's switch, including 8 9 vertical features, routing, and advanced call management capabilities. See AT&T's 10 Interconnection Agreement, Attachment 2, § 5.1.

Data switching is an additional capability provided by Local Switching. AT&T requires interconnection between local data networks and other data networks so AT&T can transport its customers' data traffic. This network-to-network transport of data is accomplished through a defined industry standard called a Network to Network Interface (NNI). GTE has agreed to unbundle only the User Network Interface (UNI) interconnect function for data switching not the NNI. This is analogous to providing local calls but blocking toll calls.

GTE must provide the routing capabilities resident in its central office switch in order for traffic to be routed to the desired destination. For example, the routing capability in the central office switch would permit the routing of Operator Services and Directory Assistance calls to AT&T's operator services and directory assistance platforms. Thus, an AT&T customer dialing zero, when served via the GTE Local Switching element, would be sent to GTE's Operator System rather than to AT&T's.

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 3.
 <u>Transport Elements:</u> GTE has refused to unbundle either Dedicated

 25
 or Common Transport from GTE's switching on the ground that the unbundling of

these local transport network elements from GTE's switching element is not technically feasible. GTE has stated that AT&T must order Dedicated and Common Transport from the access tariff. GTE will provide Tandem Switching to AT&T, except that it will not permit Tandem to Tandem switching on the grounds that GTE will lose billing data. GTE has agreed to provide Tandem to Tandem switching when it resolves the billing data issue. AT&T requires Tandem to Tandem switching for the efficiency of transporting customer calls from one exchange to another, just as GTE does for their customer calls in their local calling area.

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Again, GTE mistakes a procedural or administrative issue for technical feasibility.
The provision of these network elements on an unbundled basis is technically
feasible. This is supported by the fact that Common and Dedicated Transport are
already provided as separate elements in the access tariffs. In addition, GTE's offer
does not permit the routing of traffic that AT&T has requested.

4. GTE has taken the position that Operator 14 Operator Systems: Systems are not network elements that GTE is required to unbundle under the Act. 15 GTE does not contest the technically feasibility of providing access to Operator 16 Contrary to GTE's belief, both Operator and Directory Assistance 17 Systems. Services are considered a "capability" under the Act. Network elements consist of 18 "features, functions, and capabilities ... used in the transmission, routing or other 19 provision of a telecommunications service." 47 U.S.C. § 153(29) (emphasis added). 20 Without question, as the FCC has ruled, GTE Operator Systems is such a network 21 22 element. See 47 C.F.R. § 51.319(g).

5. <u>Signaling Elements</u>: GTE's position is that access to the Signal
 Control Point databases and Signaling Link Transport must be through the Signal
 Transfer Point and that further unbundling is not technically feasible. Again, as the
FCC has ruled, GTE is required to provide the requested unbundled signaling elements. 47 U.S.C. § 51.319(e). The unbundling of each signaling element is technically feasible. For example, AT&T is interconnected to STP pairs belonging to local exchange carriers, including GTE and alternative signaling network providers, in 191 LATAs. Most of those interconnections were accomplished during the two year period beginning October 1991, coincident with the FCC's order on 800 Number Portability. Thus, the industry has had considerable experience in unbundling signaling interconnection.

9 6. Use of Unbundled Network Elements: GTE contends that new entrants such as AT&T should not be permitted to combine network elements so as 10 to "substantially replicate" any services GTE separately offers for resale under 11 Section 251(c)(4). As I explained above, GTE's position is plainly in conflict with 12 the Act. AT&T is free to use any of GTE's unbundled network elements, either 13 alone, in combinations, or in conjunction with services purchased for resale, or with 14 AT&T's or a third party's facilities. This freedom is required by and crucial to, the 15 pro-competitive purpose of the Act. 16

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#### ADDITIONAL REQUIREMENTS

Q. IS THE FUNCTIONALITY OF GTE'S UNBUNDLED NETWORK
 ELEMENTS ALL THAT AT&T REQUIRES TO COMPETE IN THE LOCAL
 MARKET?

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A. No. The unbundling of GTE's network elements, and allowing AT&T to combine the functionality of these elements in any manner necessary to meet customer needs, will expedite robust competition in the marketplace. Without it, the barriers to entry are too substantial to ever envision competition thriving anytime in the near future. However, the unbundling of network elements, while necessary to the development

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of local competition, is not by itself sufficient to ensure the development of a competitive local market that will benefit consumers. There are a variety of additional requirements and capabilities that GTE must provide AT&T. See AT&T's Interconnection Agreement, Attachment 2, § 13.

#### 5 Q. ARE ANY OF THESE ADDITIONAL REQUIREMENTS IN DISPUTE?

6 A. Yes. The following are those that GTE refuses to provide to AT&T:

Access to Rights of Way, Conduits, and Pole Attachments: A right 1. 7 of way is the right to place poles, conduits, cables, or other equipment on the 8 property of another, as well as to obtain physical access to that equipment. See 9 AT&T's Interconnection Agreement, Attachment 3. A right of way may run under, 10 to, on, or above public or private property (including air space), and may include the 11 right to use discrete spaces in buildings or at other locations. Pole attachments are 12 the connection of facilities, such as mechanical hardware, grounding and 13 transmission cable, and equipment boxes, to a utility pole. Currently, most poles are 14 15 owned and maintained by monopoly telecommunications providers. In some cases, they are jointly owned by telecommunications and electric utilities. Conduit is 16 17 protected tubing or piping used to house communications or electrical cables. It can be either above or below ground and may contain one or more inner ducts. Conduit 18 systems are found within buildings, under road and rail crossings, under rivers and 19 streams, and in other locations where repeated excavation for maintenance or 20 21 replacement of cable facilities is not desirable or where added protection for the 22 cables is needed.

As a monopoly provider of telecommunications services, GTE has been able to obtain access to the public and private pathways necessary for its construction of critical network facilities. In fact, it has had decades in which to accumulate these

pathways. Moreover, because they are a limited resource, by virtue of the finite amount of space available as well as limitations on the extent that local governing authorities and residents are willing to tolerate the inconveniences and intrusions that constructing and accessing these pathways can cause, these pathways are a limited resource.

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For these reasons, AT&T often has no alternative but to use GTE's pathways. For 6 example, in many areas GTE owns and maintains riser-cabling (cables which 7 connect floors and rooms inside a large building). The denial of access to these 8 facilities will make it literally impossible to serve large blocks of customers except 9 through resale of GTE's services. Similarly, GTE can effectively deny access to 10 customers located in multiple dwelling units, such as condominiums or apartment 11 complexes, by refusing to provide AT&T space in the GTE equipment room located 12 13 in that building.

14 GTE interprets the "non-discriminatory access" requirement of Section 224(f)(1) to require the owners of facilities to apply the same "just and reasonable" rates, terms, 15 and conditions to all third parties obtaining access to poles, conduits, and rights-of-16 way. GTE asserts it has the right to refuse access due to capacity constraints, 17 including constraints based on GTE's 5 year planning horizon, and for reasons of 18 19 safety, reliability, and generally applicable engineering purposes. GTE claims the 5 year planning horizon is justified because it is consistent with the time frames the 20 21 FCC previously found reasonable for reserving central office space for the owner's own use related to collocation requests. GTE is unwilling to negotiate any time 22 frames for providing additional capacity because GTE believes that the rates 23 24 established pursuant to the Act are not sufficiently compensatory. GTE believes that the provisions of Section 251(c)(6) have no impact upon the FCC's prior 25

Rulemaking, and that its restriction on availability of collocation space based upon
 its five year plan is therefore justified.

The Act imposes a specific duty on the owners and holders of poles, conduits, and 3 rights-of-way who are "utilities" to provide non-discriminatory access to competing 4 telecommunications carriers. 47 U.S.C. §224(f)(1). "Non-discriminatory access" 5 means that GTE must take reasonable steps to ensure that AT&T has access to and 6 ability to use the poles, conduits and rights-of-way on the same terms and conditions 7 as GTE itself. GTE should not be permitted to first satisfy all of its existing and 8 projected five year spare capacity needs before allowing others to share the 9 pathways. Rather, GTE must free up or create such capacity. Failure to impose 10 such a requirement would permit GTE to easily erect barriers for its competitors 11 simply by claiming that any spare capacity will be required for use within GTE's 12 five year planning horizon. 13

2. Interim Number Portability: "Number portability" is the ability of 14 customers to keep their telephone numbers when changing service providers 15 ("Service Provider Local Number Portability"). Currently, there are four 16 17 predominant "interim" portability arrangements: 1) remote call forwarding (RCF); 18 2) Directory Number-Route Indexing (DN-RI); 3) Route Indexing-Portability Hub (RI-PH); and 4) Local Exchange Routing Guide (LERG). AT&T has requested that 19 GTE support all four types of interim number portability. These options will permit 20 interim portability to be deployed more efficiently and enable AT&T to better meet 21 22 its customers' requests. However, while they offer some relief, local competition cannot fully develop under any of these interim arrangements. See AT&T's 23 Interconnection Agreement, Attachment 8. 24

25 GTE has taken the position that it will provide interim number portability only

through RCF and DID/Flex DID (a form of Route Indexing that has only limited use for AT&T). In addition, GTE states that it is still investigating other methods such as flex-direct inward dialing, Directory Number-Route Indexing, Route Indexing-Portability Hub, and LERG reassignment for technical feasibility. GTE's position on interim number portability and their inability to respond to AT&T's request for the other forms of number portability places serious limitations on AT&T.

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First, RCF requires all calls placed to these "ported" customers to be routed first to 7 8 GTE's network, effectively keeping the incumbent monopoly in the path of calls to 9 AT&T's customers. This seriously constrains the ability of AT&T to efficiently 10 route and terminate calls and by requiring additional transport over incumbent 11 facilities, diminishes network reliability, transmission quality, and network 12 maintenance capabilities, and increases post-dialing delay and costs of call 13 completion. Second, because RCF relies on number translation, RCF typically disables many custom local area signaling services (CLASS) type features. RCF's 14 reliance on number translation also means that two North American Numbering Plan 15 16 numbers are required for every "ported" customer, placing undue strain on 17 numbering resources and exacerbating number exhaust. Finally, RCF is of limited utility to many business customers with call center applications, because it limits the 18 19 number of calls that may be placed simultaneously to a single "ported" number. 20 DID/Flex DID limits AT&T in many of same ways that RCF does. The DID/Flex 21 DID arrangement provides portability by causing GTE's end office switch to treat 22 AT&T's switch as if it were a private branch exchange connected to GTE's 23 network. Like RCF, DID/Flex DID requires that calls be routed through the incumbent's network, thereby similarly diminishing network reliability, transmission 24 quality, and network maintenance capabilities, and increasing post-dialing delay and 25

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the costs of call completion. Indeed, because DID/Flex DID requires that AT&T switches supporting "ported" customers be directly trunked to GTE end offices, it constrains engineering of alternative carrier networks to an even greater degree than RCF. Moreover, DID/Flex DID does not allow the calling party number to be delivered to AT&T's switch, preventing AT&T from providing vertical features such as Caller Identification to its customers.

Permanent Number Portability: AT&T has requested that GTE 7 3. support the development of an industry wide permanent number portability solution 8 9 within a geographic area based on a location routing number method and service 10 provider number portability with limited location portability. For this purpose, AT&T has requested that GTE agree to the establishment of an industry wide 11 service management system managed by an independent third party. AT&T further 12 13 requests that GTE agree to service provider number portability with limited location portability and one database solution with one local number portability dip per call. 14 15 GTE has taken the position that it is premature for GTE to commit to any long term number portability solution. GTE further has stated that it will provide only service 16 provider number portability and that it will not agree to any limited location 17 18 portability. See AT&T's Interconnection Agreement, Attachment 8, § 3.

4. Interconnection Between Two Carriers Collocated On GTE's 19 Collocation is a method for implementing interconnection between 20 Premises: carriers. Through physical collocation, an interconnecting carrier obtains dedicated 21 22 space in GTE's premises and places equipment in that space in order to interconnect 23 with GTE's and other ALECs' networks. The term "collocation" also encompasses virtual collocation. See AT&T's Interconnection Agreement, Attachment 3, § 2. 24 GTE believes that the Act only requires that GTE permit collocation for carriers that 25

intend to interconnect with GTE and that it does not require GTE to permit multiple 1 collocators to interconnect with one another on its premises. GTE claims that such 2 interconnections would have to be made using GTE's facilities, at GTE's access 3 rates. There are likely to be instances where AT&T and another non-GTE carrier 4 happen to be collocated at the same GTE premise and want to interconnect with one 5 another on GTE's premises. Those interconnections can be as simple as connecting 6 7 a cable from one collocator's space to another. In that circumstance, the most efficient way for the two carriers to interconnect with one another is through trunks 8 going directly from one carrier to the other. Such interconnections will facilitate 9 competition because it gives new carriers options, thus mitigating GTE's monopoly 10 position. Provided that space is available and that doing so would not harm GTE's 11 facilities or services, there should be no limitations on non-GTE carriers 12 interconnecting with one another on GTE's premises. 13

5. Other Restrictions On Collocation: GTE has proposed other 14 restrictions on collocation that are inconsistent with the Act. It wants to limit the 15 type of equipment that AT&T can install on GTE's premises to include only 16 17 equipment required to interconnect with GTE's facilities. If that equipment performs any other function-for example, if the equipment served as a remote 18 switching unit-then GTE would preclude the equipment from being collocated on 19 its facilities, even though GTE has space available on its premises and it would be 20 technically efficient to engineer the equipment for collocated space. GTE also has 21 proposed to restrict the use of the collocated space to the interconnection of only 22 23 switched or special transport services and connections to unbundled local loops. GTE has not explained why it believes these restrictions are appropriate or 24 necessary. These restrictions appear unreasonable and are perceived to have been 25

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proposed for no other reason than to make it more difficult for GTE's would-be competitors to operate efficiently. See AT&T's Interconnection Agreement, Attachment 3, § 2.

6. 4 Advanced Intelligent Network (AIN): GTE refuses to unbundle access to its AIN in such a way that AT&T can achieve parity in the creation and 5 offering of AIN based services. AIN will allow AT&T to offer consumers a variety 6 of innovative, competitive advanced features and services independent of GTE. See 7 8 AT&T's Interconnection Agreement, Attachment 2, § 12.2.10. For example, AIN 9 triggers would enable a carrier to offer "voice recognition," a service that allows a 10 customer to dial a call by speaking the name of the party the customer wishes to call. 11 AT&T's access to GTE's AIN triggers will provide AT&T with call control 12 capability within the GTE local switch that would allow AT&T to customize 13 offerings without having to duplicate GTE's network. Such access is critical to AT&T's ability to provide competing services to its customers now and in the future. 14 GTE has taken the position that providing unmediated access to AIN is not 15 16 technically feasible. GTE states that it will work with AT&T to jointly develop and 17 test AIN services that will execute on GTE's platforms, thus permitting AT&T 18 "virtual" access to AIN capabilities. GTE's refusal to provide AT&T access to 19 GTE's AIN in such a way that AT&T can achieve parity in the creation and offering 20 of AIN based services prevents AT&T from offering consumers a variety of 21 innovative, competitive advanced features and services independent of GTE.

GTE also has not agreed to interconnect their SS7 network with AT&T's SS7 network for the purpose of exchanging AIN TCAP messages from their switch to AT&T's AIN SCP. GTE's position is that the access to their AIN platform and interconnection of GTE's SS7 network and AT&T's SS7 network for the purpose of access to AT&T's

1	AIN SCP is not technically feasible at this time. This position is ironic in light of the
2	fact that the incumbent carriers and Bellcore viewed AIN as a chance for the
3	incumbents to break through a vendor bottleneck on switch software feature
4	development that inhibited them from quickly meeting customer needs. AT&T is
5	now in essentially the same position GTE was a few years ago in its struggle to
6	wrestle control of centralized switch intelligence from switch vendors, in that the
7	new entrant's ability to define new services are constrained by GTE.
8	7. Unused Transmission Media: AT&T has requested that GTE lease
9	to AT&T GTE's unused transmission media. See AT&T's Interconnection
10	Agreement, Attachment 3, § 4. GTE has refused. AT&T needs the ability to lease
11	this media to facilitate its ability to efficiently build its own network transmission
12	facilities. Without the ability to lease this media. AT&T faces yet another capital

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#### VI. CONCLUSION

#### 16 Q. PLEASE SUMMARIZE YOUR TESTIMONY.

investment barrier to developing its own network.

17 Α. AT&T is asking this Commission for a decision that will approve AT&T's requests 18 for access to GTE's unbundled network elements and combinations of elements, 19 including the additional requirements necessary for efficient use of these elements, 20 as described in this testimony and enumerated in AT&T's proposed Interconnection Agreement with GTE. Access to the unbundled network elements and combinations 21 22 of elements that AT&T has requested is technically feasible. GTE's refusal to 23 provide AT&T access is based on an incorrect application of the concept of 24 technical feasibility and on policy positions that conflict with the pro-consumer 25 purposes of the Act. AT&T's Interconnection Agreement sets forth a business

arrangement between AT&T and GTE, tailored to AT&T's individual needs, that
 will provide such access, and thereby make it possible for AT&T to diversify its
 presence in the local market and quickly bring the benefits of competition to
 consumers.

### 5 Q. DOES THIS CONCLUDE YOUR TESTIMONY?

6 A. Yes.

1		<b>REBUTTAL TESTIMONY OF</b>	354
2		RAY CRAFTON	
3		ON BEHALF OF	
4		AT&T COMMUNICATIONS	
5		OF THE SOUTHERN STATES, INC.	
6		BEFORE THE	
7		FLORIDA PUBLIC SERVICE COMMISSION	
8		DOCKET NO. 960847-TP	
9		Filed: September 24, 1996	
10			
11	Q.	PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.	
12	<b>A</b> .	My name is Ray Crafton. My business address is 1200 Peachtree Street, N.E.,	
13		Atlanta, Georgia 30309-3579.	
14			
15	Q.	HAVE YOU PREVIOUSLY OFFERED TESTIMONY IN THIS	
16		PROCEEDING?	
17	<b>A</b> .	Yes. I provided direct testimony on August 16, 1996.	
18 19	Q.	WHAT IS THE PURPOSE OF THE TESTIMONY YOU ARE CURRENTLY	
20		OFFERING?	
21	<b>A</b> .	I am providing rebuttal testimony that responds to the testimony of GTE Florida	
22		Incorporated ("GTE") on selected issues. Specifically, I am responding to statements	
23		made by Messrs. Wood, Morris, DellAngelo, Ries, Bailey and Ms. Menard. My	
24		rebuttal testimony focuses on the provision of unbundled network elements,	
25		collocation, access to poles, conduits and rights of way, and the appropriate number	



of portability arrangements.

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## 2 Q. HAS AT&T REQUESTED UNRESTRICTED ACCESS TO GTE'S LOOP 3 PLANT?

- A. No. On page 22 of GTE Witness Wood's testimony, he discusses the need for
  security and reporting procedures to protect the network from physical damage,
  compromise of privacy, and increased toll fraud. AT&T believes that reasonable
  security and reporting procedures should be developed that do not unfairly or
  unreasonably restrict the use of the unbundled elements and, at the same time, protect
  the network from physical damage, compromise of privacy, and increased toll fraud.
- 11 Q. IF SUBLOOP ELEMENTS WERE UNBUNDLED, WOULD THE

#### 12 INTEGRITY OF GTE'S NETWORK BE COMPROMISED?

- No. Methods and procedures could be developed that would protect the integrity of 13 А. GTE's network. The potential for toll fraud and eavesdropping exist in today's loop 14 plant and would not be increased by unbundling subloop elements. GTE's network 15 will be no more vulnerable than it is today to physical access by unathorized parties 16 once subloop elements are unbundled and made available to ALECs. It is likely that 17 more loop plant will continue to be damaged in the future by end users pushing lawn 18 19 mowers into cross connect enclosures and driving cars into telephone poles than by 20 trained, certified technicians carrying out their job responsibilities.
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1	Q.	WILL THE UNBUNDLING OF LOOPS THAT ARE SERVED ON
2		INTEGRATED DIGITAL LOOP CARRIER (IDLC) SYSTEMS REALLY
3		COST 'MANY MILLIONS OF DOLLARS' AS GTE CONTENDS?
4	<b>A</b> .	These costs may not be as substantial as GTE has indicated. The costs will be driven
5		by the frequency with which these systems have been deployed and by how often new
6		entrants find it cost effective to use unbundled loops. Besides use of channel banks to
7		provide unbundling of IDLC loops there are additional methods including but not
8		limited to:
9		
10		1. use of copper loops that have been left in place at the time of
11		IDLC deployment,
12		2. use of universal Digital Loop Carrier systems that may have
13		been left in place at the time of IDLC deployment or that can
14		be deployed alongside the IDLC, and
15		3. use of next generation IDLC technology, known as Virtual
16		Remote Terminals, to provide unbundling within the IDLC
17		itself.
18		
19		The benefit to the consumer of this unbundling is that the 20% of consumers who are
20		served by IDLCs in GTE's network will see the benefits of facility-based competition
21		in which new entrants like AT&T can pick up an unbundled IDLC loop and connect
22		it to the new entrant's switch. These customers can then enjoy the benefits of service
23		differentiation and lower cost afforded by the new entrant's switch and its value-
24		added features. Without such unbundling, competition in this portion of the market
25		would be limited to resale of GTE's services.

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2	Q.	WHAT IS THE APPROPRIATE DEFINITION OF TECHNICAL
3		FEASIBILITY? -
4	<b>A</b> .	According to Section 251(c)(3) of the Act, ILECs are required to provide
5		"nondiscriminatory access to network elements on an unbundled basis at any
6		technically feasible point" (emphasis added). In other words, if it is
7		operationally possible to provide access to an unbundled element at any given point in
8		GTE's network, GTE is required to provide such access at the request of a
9		telecommunications carrier. This Commission, like the FCC, should not permit GTE $\$ .
10		to use economic, space or site considerations to avoid its obligations under the Act.
11		GTE's concerns about the costs of providing access to unbundled elements, the
12		possibility that some of its space may need to be expanded, and other site
13		considerations are logistical issues that GTE should not be permitted to hide behind to
14		hinder the development of competition in the local exchange markets. If there are
15		costs that are incurred due to ALECs' requests to obtain access to unbundled
16		elements, these issues can be properly addressed by the Commission through the
17		establishment of an appropriate cost recovery mechanism.
18		
19	Q.	WHY IS IT IMPORTANT THAT THIS COMMISSION ORDER GTE TO
20		PROVIDE CUSTOMIZED ROUTING?
21	<b>A</b> .	1. It allows an operator services call for the new entrant to be branded as that
22		entrants call when it is handled on the GTE operator services platform.
23		2. It allows an operator services call for the new entrant to be
24		routed to that entrant's operator services platform.
25		3. It allows GTE to unbundle its local switching network

1		element from both the operator systems network element and the
2		interoffice transport network elements thereby meeting the FCC
3		order's definition of these elements and the order's requirement that
4		these elements be made available separately or in any combination.
5		
6	Q.	IS IT TECHNICALLY FEASIBLE FOR GTE TO PROVIDE CUSTOMIZED
7		ROUTING?
8	<b>A</b> .	Contrary to the assertions of GTE witness Wood, it is technically feasible for GTE to
9		provide customized routing functions. Most switches within a LECs network under-utilize
10		the number of available Line Class Codes ("LCCs"). On most switches there are usually
11		hundreds, sometimes thousands, of spare LCCs. Only a small percentage of LCCs are
12		needed to provide the type of customized routing described in my direct testimony. Indeed,
13		PENNSYLVAN(P) several state commissions, including Georgia, Illinois and New York, have found that it is
14		technically feasible for ILECs to provide customized routing. The FCC also concluded that
15		"customized routingis technically feasible in many LEC switches." If a particular switch
16		within GTE's network has limited capacity, GTE should be required to make the
17		appropriate demonstration to this Commission. Even the FCC concluded that an incumbent
18		LEC must prove to the state commission that customized routing in a particular switch is
19		not technically feasible.
20	Q.	HAS GTE ALWAYS CONTENDED THAT IT IS NOT TECHNICALLY
21		FEASIBLE TO USE LINE CLASS CODES TO PROVIDE CUSTOMIZED
22		<b>ROUTING ON THEIR SWITCHES?</b>
23	<b>A</b> .	No. In a letter dated April 25, 1996, Mr. Dan Bennett, GTE's national manager for
24		the AT&T account wrote to Terry Casey, a manager on AT&T's negotiating team
25		that:
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1		GTE also acknowledges the apparent technical feasibility of routing
2		AT&T customers to the AT&T OS platform via "0+/0"- dialing
3—		utilizing the Line Class Code (LCC) functionality of the 5ESS® end
4		office switch. Further, GTE conceptually agrees that LCC and/or
5		enhanced/special route indexes are basic switch processing
6		capabilities and the potential for utilizing similar functionality may
7		(or could be made to) exist within some or all of GTE's other switch
8		types
9		
10	Q.	WOULD PROVISION OF CUSTOMIZED ROUTING LEAD TO AT&T'S
11		AVOIDANCE OF ACCESS CHARGES AS GTE CONTENDS?
12	<b>A</b> .	Contrary to GTE's contention, implementation of these routing capabilities will not
13		lead to AT&T's illegal avoidance of any access charges whatsoever. AT&T intends
14		to pay those access charges which are applicable to a given call.
15		
16	Q.	WILL THE INTEGRITY OF GTE'S SS7 NETWORK BE COMPROMISED
17		IF ALECS ARE PERMITTED TO INTECONNECT WITH GTE'S AIN
18		NETWORK?
<b>19</b> <sup>'</sup>	<b>A</b> .	No. As GTE witness Morris correctly points out on page 20 of his testimony, the
20		Signal Transfer Points ("STPs") in the SS7 network provide the mediation function.
21		Mediation at the STPs adequately protects both the switch and the database
22		applications in the signaling network. Based on AT&T's AIN trial with BellSouth,
23		this mediation is sufficient to protect AIN applications in the SS7 network as long as
24		the interconnecting carriers have run a rigorous set of AIN network validation tests.
25		This testing has become standard procedure in the interconnecting of SS7 networks

- and their applications.
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Q. GTE WITNESS DELLANGELO ASSERTS THAT AIN END OFFICE

# 4 TRIGGERS CANNOT BE SHARED BY MULTIPLE PROVIDERS. IS THIS 5 CORRECT?

- A. No. For a single customer his statement is true. But for a single switch serving
  multiple customers, the statement is false. AIN standards expressly permit an AIN
- 8 query for a given subscribed trigger to be routed to a different AIN SCP database
- 9 depending on the customer subscribing to that trigger. Thus, an AT&T local
- 10 customer served by a GTE local switch can have their AIN queries routed to the
- 11 AT&T AIN SCP database while a GTE customer on the same switch subscribing to
- 12 the same triggers will have their AIN queries routed to the GTE AIN SCP database.
- 13 It is in this sense that the AIN triggers within a GTE switch can be accessed by
- multiple providers. The key here is that the two providers' sets of customers are
   Bell South
   distinct and separate. The architecture proposed by AT&T in the AT&T-AIN test
   public office dial plan and
   report of November 1995 concluded that the sharing of subscribed triggers between
- 17 multiple service providers is technically feasible.
- 18

### 19 Q. DOES THE NATURE OF AIN DEMAND FURTHER MEDIATION, AS GTE

### 20 CONTENDS?

A. No. GTE Witness DellAngelo points to a number of network fault conditions that
may be inadvertently triggered if further mediation of AIN is not put in place.

- 23 However, it is just as likely for GTE to cause a network fault in its AIN applications
- 24 as it is for another user, like AT&T, to cause them. Thus, if the Florida Commission
- 25 concludes that access to GTE's AIN network requires further mediation then the same

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mediation functions should apply to all users including GTE.

GTE CONTENDS THAT IT IS NOT TECHNICALLY FEASIBLE TO Q. 3 **UNBUNDLE THE SIGNALING ELEMENTS. IS THAT CORRECT?** 4 No. Incumbent LECs and some signaling aggregators already provide access to the 5 Α. various signaling elements on an unbundled basis. Several state commissions, 6 7 including Colorado, Michigan, and Texas, recognized the technical feasibility of providing unbundled elements of SS7 networks and already require incumbent LECs 8 to provide such unbundled elements. The FCC in its recent Order gave considerable 9 weight to the findings of these state commissions in reaching the conclusion that 10 access to unbundled signaling links and STPs is technically feasible. 11 12 IN YOUR EXPERIENCE IS THERE ANY REASON THAT SIGNALING Q. 13 LINKS CANNOT BE UNBUNDLED? 14 Α. 15 None whatsoever. Signaling links are nothing more than digital interoffice 16 transmission facilities which can be purchased today as private lines. Their only peculiarity is that they must be acquired in sets of 2 or 4 links at a time and that the 17 18 routing of the links within each of these sets must remain physically diverse to ensure 19 signaling network redundancy and reliability. 20 **Q**. GTE WITNESS RIES ASSERTS ON PAGE 11 OF HIS TESTIMONY THAT 21 22 AT&T IS SEEKING TO COLLOCATE MORE THAN THAT EQUIPMENT 23 NECESSARY FOR INTERCONNECTION OR ACCESS TO UNBUNDLED **NETWORK ELEMENTS. IS THAT A FAIR CHARACTERIZATION OF** 24 AT&T'S POSITION? 25

Α. No. AT&T is seeking to collocate only the equipment necessary to interconnect with 1 GTE. This can sometimes require collocation of small amounts of switching 2 equipment. For example, GTE states that at least 20% of the customers on GTE's -3 local network are served by a digital loop carrier system. When AT&T wishes to 4 connect a GTE unbundled loop serving one of these customers to an AT&T local 5 6 switch, it will usually require AT&T to haul that traffic over many miles. (As a new 7 entrant, AT&T likely will begin with few switches and few customers scattered over a wide area.) Faced with this situation, AT&T could deploy its own digital loop carrier 8 system to minimize line haul costs from the collocation cage back to the AT&T 9 switch. However, use of an AT&T digital loop carrier system back-to-back with a 10 11 GTE loop carrier system leads to a significant deterioration in transmission quality for that customer. If, on the other hand, AT&T does not deploy its own digital loop 12 carrier system, the cost of serving the customer is increased because each and every 13 individual loop must be hauled back to the AT&T switch. The best answer in these 14 situations is to deploy a remote switch module instead of a digital loop carrier system 15 and to switch the call at the collocation cage. This avoids both a deterioration in call 16 quality and much of the backhaul costs. GTE has remarked of its network that "one 17 size does not fit all". And this is true of the interconnection equipment AT&T must 18 deploy to interconnect with their GTE network. 19

20

# Q. SHOULD THE FLORIDA COMMISSION LIMIT WHERE COLLOCATION MAY OCCUR?

A. No. The Commission should order GTE to allow collocation at all collocation
 facilities that house GTE network facilities, unless GTE makes an appropriate
 showing before this Commission that it is not technically feasible to allow collocation

1		at a given facility requested by an ALEC. By adopting this policy approach, the
2		Commission will ensure that competition will not be stifled and consumers will
3		benefit from reduced interconnection cost. The FCC recognized that there is a broad
4		array of points at which interconnection is permitted as GTE witness Ries observes:
5		
6		GTE recognizes that the FCC's Order requires collocation to be
7		provided at all structures that house GTE network facilities,
8		including "any structures that house LEC network facilities on public
9		rights-of-way, such as vaults containing loop concentrators or similar
10		structures."
11		
12		The FCC also interpreted the Act as requiring the incumbent LEC to prove that a
13		given point is not feasible.
14		
15	Q.	GTE ASSERTS THAT THIS COMMISSION SHOULD ALLOW IT TO
16		RESERVE POLE AND CONDUIT CAPACITY FOR ITS OWN FUTURE
17		NEEDS AND SHOULD PERMIT IT TO DENY SUCH RESERVE
18		CAPACITY TO ALECS. DO YOU AGREE WITH GTE'S POSITION?
19	<b>A</b> .	No. GTE witness Bailey beginning on page 15 of his testimony is essentially advocating
20		that this Commission sanction GTE's desire to discriminate between itself and ALECs.
21		GTE is willing to provide ALECs with the same access to poles and conduits that GTE
22		provides to other ALECs but is not willing to provide such access on the same terms and
23		conditions afforded to GTE. This is inappropriate because such a policy will allow GTE to
24		manipulate the development of competition by increasing its reserves to foreclose the use of
25		pole and conduit capacity by its competitors. Moreover, GTE's position is directly at odds

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1		with the Act which requires "nondiscriminatory" access to poles, conduits and rights of
2		way. The FCC also prohibited any reservation of pole and conduit capacity by incumbent
3		LECs.
4		
5	Q.	IS IT NECESSARY FOR GTE TO PROVIDE THE FOUR INTERIM
6		NUMBER PORTABILITY OPTIONS REQUESTED BY AT&T?
7	<b>A</b> .	Yes. Maximum flexibility with respect to INP is necessary given the technical
8		limitations of all switch-based options and the attendant impacts to various
9		customer segments. Given that no single INP option will achieve parity between
10		GTE and its potential competitors, AT&T must be able to choose the option for
11		each switch and for each of its customers, that can most closely approximate parity
12		with the call processing GTE provides to its own customers.
13		
14	Q.	IS ROUTE INDEXING (RI-PH) TECHNICALLY FEASIBLE?
15	<b>A</b> .	Yes. In a 1995 presentation to the Illinois Commerce Commission LNP workshop, an
16		Ameritech speaker, Barry Bishop, proposed RI-PH (SPNP-Hub [utilizing SS7]) as an
17	1	INP solution which was demonstrated to provide numerous advantages and to be
18		technically feasible. The handout stated that RI-PH "has been tested with the 5ESS,
19		DMS 100, EWSD, and 1AESS." Ameritech went on to say, "It is Ameritech's
20		opinion that the RI-PH offers a viable, proven and less burdensome near term
21		alternative for number portability and one which does not involve a lot of throw away
22		development and implementation costs " BellSouth has agreed to provide RI-PH
23		to AT&T. Therefore, it appears that RI-PH is technically feasible and should be
24		made available to AT&T as an INP solution.
25		

T		
2	Q.	GTE HAS OFFERED FLEX-DID AS AN INP SOLUTION. ARE THERE
3		LIMITATIONS OF FLEX-DID THAT MAKE IT AN UNDESIRABLE
4		SOLUTION IN CERTAIN INSTANCES?
5	<b>A</b> .	Yes. Flex-DID has several limitations. First, since it is a PBX-oriented feature,
6		Flex-DID generally supports only dial pulse or Touch Tone (DTMF) signaling.
7		SS7 is not supported, and thus it may not be possible to pass calling line
8		identification CgPN (or Automatic Number Identification "ANI") to the AT&T
9		office.
10		
11		Second, as a PBX interface, Flex-DID requires direct trunking between the GTE
12		and AT&T offices. This solution thus appears to be both inefficient and
13		uneconomical in the instance when only a few numbers are ported from a given
14		GTE office.
15		
16		Finally, Flex-DID uses analog (MF) signaling. Flex-DID using MF trunks would
17		introduce additional post-dialing delay (as contrasted to SS7) and is clearly below
18		parity with GTE's own customers.
19		
20	Q.	IS LERG REASSIGNMENT USEFUL AS AN INP OPTION?
21	<b>A</b>	Yes, in limited cases. In cases where AT&T desires to provide number portability
22		for the entire number block (NXX) and other INP options are not available to
23		AT&T, such as Route Indexing-Portability Hub, LERG reassignment is the only
24		"efficient" means remaining to route the numbers to the new service provider's
25		switch. LERG does not contribute to the reduction of numbering resources and uses

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1		more efficient routing technology. While the industry LERG reassignments
2		normally avoids splitting NXXs across different offices, sometimes it is necessary,
3–		and it is done. Migrating of NXXs is done in the normal course of business when,
4		for instance, an existing switch is retired.
5		
6	Q.	PLEASE COMMENT ON GTE'S RESPONSE TO AT&T IN REGARD TO
7		INP.
8	<b>A</b> .	AT&T is disappointed and frustrated with GTE 's policy position, not to provide INP
9		options that would enable AT&T to better serve its customers. Furthermore, AT&T
10		does not agree with GTE's statement that its current INP offerings, especially Flex-
11		DID " is a good choice for INP because it is a reliable, proven method and is easily
12		provisioned by service providers today without costly network modifications." As I
13		mentioned earlier, Flex-DID would require trunks to every GTE collocated end office,
14		even if traffic volumes did not justify this arrangement; and it would require MF
15		trunks, which clearly are inferior to the trunks with SS7 signaling, between those
16		offices. Clearly, Flex-DID is the least effective INP option. Most significantly,
17		AT&T disputes GTE's statement that RI-PH has not been tested, since Ameritech
18		has, in fact, stated publicly that it has been tested and has recommended it in industry
19		forums.
20		
21		
22		
23	Q.	PLEASE COMMENT ON GTE'S RESPONSE TO AT&T IN REGARD TO
24		PERMANENT NUMBER PORTABILITY (PNP).

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1	<b>A</b> .	AT&T has requested GTE to support the development of an industry wide permanent
2		number portability solution. PNP is currently being worked in industry forums,
3		including, Florida docket No. 960100-TP. To the extent that this issue is resolved in
4		Docket No. 960100-TP, this issue need not be addressed in this arbitration
5		proceeding. However, if this issue is not resolved in that docket, it is AT&T's
6		position that this Commission should implement PNP in accordance with the FCC's
7		regulations promulgated in FCC Docket 95-116. The FCC set forth certain criteria
8		that a PNP must meet. It is AT&T's position that the LRN solution is the only
9		solution that currently meets the FCCs criteria. Therefore, the Commission should
10		adopt LRN as the PNP solution for the State of Florida.
11 12	Q.	PLEASE SUMMARIZE AT&T'S POSITION WITH RESPECT TO
13		NUMBER PORTABILITY.
14	<b>A</b> .	AT&T believes that Number Portability is a necessary and essential component of
15		effective local competition. Congress, the Florida legislature and the FCC have also
16		reached this firm conclusion. AT&T, recognizing the delay in the availability of a
17		permanent number portability solution, seeks to obtain from GTE four distinct INP
18		solutions, each of which is technically feasible. In addition, AT&T seeks the
19		necessary operational interfaces and flexibility to implement these INP options, so
20		that AT&T can best meet the needs of its various customer segments.
21		
22	Q.	DOES THIS CONCLUDE YOUR TESTIMONY?
23	Α.	Yes

1 BY MR. TYE:

Mr. Crafton, have you prepared a summary of your 0 2 3 testimony? Α Yes, I have. 4 Okay. Could you give us that summary at this 0 5 6 time, please, sir? I'd be delighted. Good afternoon. Α 7 My testimony addresses unbundled network 8 elements, or UNEs, and ancillary functions. The Commission 9 has a unique and historic opportunity to create an 10 environment of greater consumer choice in Florida's local 11 telephone industry, and this environment depends upon the 12 creation of a menu of building blocks available to new 13 entrants which provide them access to today's monopoly 14 local exchange network. More menu choices available to new 15 entrants translates in a direct and tangible way to more 16 17 choices for Florida consumers. The 12 unbundled network elements sought by AT&T 18 constitutes such an array of options. These 12 UNEs are a 19

20 technically feasible and reasonable set of elements based 21 upon industry standards. They should be made available to 22 new entrants with an absolute minimum of restrictions on 23 their use and on the ability of new entrants to combine 24 them to serve consumers.

25

AT&T is requesting all 12 UNEs, including the

subloop elements, because AT&T and GTE have yet to reach
 agreement on a bona fide request process for the subloop
 elements. You will recall from last week's proceeding that
 such an agreement has been reached by AT&T with BellSouth.

5 Now last week you also heard BellSouth 6 characterized as the Frankenstein's monster of the Telecom 7 Act, the ability of a new entrant to buy all or nearly all 8 of the UNE piece parts and to resurrect them into a 9 competitive monster. I think that you are going to hear 10 that old horror story told again this week, but let's focus 11 on four fresh realities instead.

First, to deny recombination of elements at 12 cost-based prices is simply contrary to the plain language 13 of the Telecom Act. Second, the use of combinations will 14 directly benefit consumers, and I'll give you an example in 15 Third, if the goal is to get new entrants into 16 a moment. the market quickly, the Commission needs to provide the UNE 17 platform to reach that goal, and I'll explain how and give 18 you an example in a moment. And the fourth reality about 19 the UNE platform is that it is the doorway to 20 facility-based competition. Having entered a market using 21 the UNE platform, a new entrant will then be free to 22 substitute their network elements and those obtained from 23 third parties for those initially obtained from the 24 incumbent monopolist whenever this is economically 25

1 efficient.

Let me give you an example of point number 2 2 about consumer benefit. By using UNE combinations instead 3 of resale, new entrants will be able to differentiate their 4 5 offers from the incumbent and provide customers with more bang for the buck. For example, a new entrant might decide 6 to include in basic local service at no additional cost to 7 consumers features such as call waiting, call forwarding or 8 other vertical services. The UNE platform enables this 9 when resale does not because the UNE platform cost of these 10 features reflects their true underlying cost, which is de 11 minimis. In other words, they are included already in the 12 local switching element's TELRIC based price. 13

Example number 3 about faster entry. You heard 14 Joe Gillan and Ron Shurter talk some about this this 15 morning, and I just want to crystalize it for you. The UNE 16 platform will get AT&T into some markets more quickly than 17 resale will. Why? Because resale of services requires the 18 development of more than 50 electronic operational 19 interfaces to enter the 50 states, one for each supplier in 20 each state in fact. This is because services and the way 21 that they are ordered, provisioned, maintained, et cetera, 22 differ from state to state and supplier to supplier. 23

In contrast, the network elements are more nearly the same in each supplier's network. Thus an electronic

1 interface for preordering, order and provisioning 2 maintaining and billing of UNEs with one supplier in one 3 state is highly likely to be reusable in Florida with GTE 4 or BellSouth with little or at least less additional 5 development as compared to the electronic interface for 6 resale.

Finally, as to point number 4, UNE platform being the doorway to facility-based competition. It is AT&T's desire to use some of its own world class network assets in combination with those of the incumbent LECs wherever this is possible. I think one really good example of this that you've heard in these proceedings is our operator services platform, another is the signaling network.

The combination of AT&T's operator systems 14 element with GTE's local switching element is only 15 possible, however, if GTE provides customized routing 16 17 within its local switching element. Based upon correspondence with GTE and with the manufacturers of 18 switches used in GTE's network, we believe that customized 19 routing is feasible in nearly all of GTE's switches in the 20 State of Florida and should be so ordered by this 21 Commission. For an example of that correspondence is a 22 Mr. Paul Guanari in Lucent network management recently 23 issued instructions for implementing the line class code 24 25 customized routing solution in the 5ESS.

MR. GILLMAN: Chairman Clark, I object. 1 This is not part of his testimony; it's part of ours. 2 I believe it is part of his rebuttal 3 MR. TYE: testimony. 4 CHAIRMAN CLARK: Mr. Tye, there has been an 5 objection. Can you point to the rebuttal testimony where 6 it's covered? 7 MR. TYE: Could I have just a minute, Chairman? 8 (WHEREUPON, MR. TYE REVIEWED DOCUMENTS) 9 MR. TYE: Chairman Clark, on page 5 of the 10 witness's testimony, he talks about the line class codes. 11 There is a letter referenced there. I'm not sure it's the 12 same letter, and if it's not, we'll move on and get on into 13 the rest of his summary. 14 MR. GILLMAN: It's not the same person, so I 15 don't think it's the same letter. 16 17 MR. TYE: I believe that what the witness was discussing is a more recent bit of correspondence that has 18 to do with clarification of that particular letter. I will 19 admit that it's not in this --20 CHAIRMAN CLARK: Mr. Gillman, do you object to 21 22 having him cover that? MR. GILLMAN: Yes, I do. 23 24 CHAIRMAN CLARK: Okav. MR. TYE: We'll move on. 25

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1 CHAIRMAN CLARK: If it's outside the scope of his 2 testimony, then it shouldn't be summarized.

MR. TYE: Yes, ma'am, I will represent to the Commission that it is a more recent correspondence that was received after the filing deadline, so I'm sorry it's not in there, but we'll move on.

7 BY MR. TYE:

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Q Could you proceed with your summary, Mr. Crafton? A I will.

I would now like to use the CD-ROM presentation 10 as Mr. Tamplin did last week. And in this presentation I 11 will trace the path of a type of local call that 12 illustrates the kind of innovative services AT&T hopes to 13 one day make available to Florida consumers. My intent 14 here is to draw a connection between benefits to Florida 15 consumers and two of AT&T's requests, one for unmediated 16 17 access to the advanced intelligent network, or AIN triggers, in GTE's local switch network elements; and the 18 second for unbundling of GTE's signaling network elements. 19 After the CD-ROM presentation, I will make some 20 final remarks about AT&T's request for a set of interim 21 local number portability solutions and other ancillary 22 functions. 23

What you are about to see is an example of a local AIN call from customer 1 to customer 2. It begins

with customer 1 lifting her telephone receiver. The off-hook signal is carried from her customer premise equipment to the local switch via the network interface device, loop distribution and loop feeder network elements.

The local switch element has been previously 6 programmed by, in this example, by its owner, the incumbent 7 local exchange carrier, to recognize any off hook from 8 customer 1 as an immediate triggering of AIN. The local 9 switch element immediately launches a query over the 10 signaling network to the data base of customer 1's AIN 11 provider asking for call processing instructions. 12 The AIN provider need not be the incumbent local exchange carrier 13 under AT&T's proposal for AIN access. 14

Let us assume for a moment that it is AT&T. The 15 AT&T-AIN data base receives the query, looks up the 16 relevant instructions in its memory, and formats and sends 17 a signaling message back to the local switch containing the 18 relevant instructions for this customer. In this case the 19 switch is instructed to connect customer 1's line to a 20 speech recognition platform. The use of existing 21 safequards in the signaling network and the prior thorough 22 testing of this call flow by AT&T and GTE ensure that the 23 integrity of both the network and customer service are 24 maintained. The switch receives and processes the response 25

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from the AT&T-AIN data base. Note that the preprogramming
 placed in the switch by the incumbent local exchange
 carrier has the final say in how to treat the instructions
 it has just received.

The local switch network element routes the call 5 to the speech processing platform designated in the 6 received instructions. The speech recognition platform may 7 be provided by AT&T, GTE, or a third party. In any event, 8 this is another example requiring customized routing, and 9 in this case customized routing has been accomplished by 10 the AIN solution. This is one of the long-term solutions 11 to the customized routing problem. It is free of the 12 capacity limitations that may sometimes exist for the 13 interim line class code solution. This long-term solution 14 for customized routing has been agreed by Bell Atlantic for 15 example. Returning now to our AIN call flow --16

17 ELECTRONICALLY TRANSMITTED: Say the name of the18 person you are calling.

19 A The speech recognition platform prompts the20 customer.

21 ELECTRONICALLY TRANSMITTED: Call mom.

A The customer speaks her dialing instructions, and the speech recognition platform dials mom's telephone number into the switch, and the local switch element sets up the call which then completes over a combination of

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common transport, local switching, loop network interface
 device, unbundled network elements to customer 2.

If AT&T's request for unmediated access to AIN 3 4 triggers is granted, customer 1 will hear the speech recognition systems prompting her to speak the called 5 party's name as soon as she gets the handset to her ear. 6 On the other hand, if AT&T's request is not granted, 7 customer 1 will experience a perceptible delay before the 8 prompt is delivered. Also, there will be additional cost 9 elements introduced by the extra data base processing 10 inherent in mediation as well as the increased probability 11 of call failure introduced by the unnecessary processing. 12

The extra processing inherent in mediation is 13 depicted on the chart entitled "AIN Access with Mediation" 14 as the green SCP data base. If mediation is applied only 15 to the new entrants AIN queries and responses and not to 16 17 those of the incumbent, the result is poorer, costlier service when a new entrant attempts to provide innovative 18 services combining its own AIN data base with network 19 20 elements purchased from the incumbent.

And let me just take a moment and explain this chart because it's a little complicated. In our call-mom example, let's assume that customer 1 is over here (indicates). These wine-colored network elements are those of the incumbent LEC, and so we could for a moment assume

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1 that customer 1 is served by the UNE platform, has become 2 an AT&T customer, is still served by assets in the 3 incumbent LEC's network.

The switching system is this SSP (indicates) in 4 which the AIN triggers reside. The signal transfer point 5 is responsible for sending signaling messages from switches 6 to data bases, and that is what the SCP is. The service 7 management system manages customer records in this data 8 The service creation environment is, think of it as 9 base. a work station at which a designer designs a new service at 10 a terminal and then downloads it into the SMS who 11 subsequently places it in the data base for use. 12

Now in our example, and I'm going to label -- let 13 me just put a yellow sticker here, so there is our customer 14 1 (indicates), and she is the one making the AIN call. Mom 15 is over here (indicates). This blue network, different 16 17 color because for a moment we'll assume this is the AT&T local network, so the call is eventually going to go from 18 switch to switch; but before it can do so, since both of 19 these customers happen to be AT&T, this one on the UNE 20 platform, this one on a facility-based platform of AT&T's 21 22 own construction, the query and response to the data base that you saw has to get from here (indicates) over to a 23 data base belonging to AT&T since we are the AIN provider. 24 25 And the point is that mediation, which is introduced by

this green widget (indicates) here involves the STP checking whether it's okay to send out the query, and then when the response comes back, it once again checks the content of the response to say, is this okay to send to the switch? And that's not necessary given the mediation and protection and testing that we do in the network today.

Since AIN calls use the signaling network, I 7 8 would like to remark briefly now on the unbundling of these network elements. Signaling network standards and 9 interconnection make it technically feasible for a new 10 entrant to obtain signaling links, signal transfer points 11 and service control point data bases from a variety of 12 sources and to combine them with the incumbent local 13 exchange carrier's signaling network elements in a number 14 of arrangements. And a good example of this was the recent 15 New York local number portability trial in which an 16 alternative local carrier's local switch communicated with 17 an interexchange carrier's data base through a third-party 18 19 signaling network.

Since some new entrants like AT&T have a mature signaling network while another new entrants have none at all, signaling elements should be unbundled so that new entrants can purchase just what they need to serve consumers. This allows different entrants to enter both quickly and in an economically efficient manner. And the

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ultimate winners when this happens are the consumers of
 Florida.

I would like to now summarize AT&T's request for 3 ancillary functions. AT&T has requested four ancillary 4 Interim local number portability, collocation, 5 functions: access to right-of-way conduits and pole attachments, and 6 the fourth, access to dark fiber. We ask that these be 7 provided with a minimum of restrictions on their 8 availability and capability in order to bring choice 9 quickly to consumers. 10

For instance, AT&T has requested a set of interim 11 local number portability options, and these are listed on 12 this checklist chart that is being placed. They include 13 remote call forwarding, RCF; directory number route 14 indexing, or DN-RI; route indexing portability hub, or 15 16 RI-PH; and local exchange routing guide reassignment, which is abbreviated as LERG. Direct inward dialing, DID is 17 listed on the chart, although we have not asked for that; 18 19 it is listed here for the sake of comparison. So we have asked for the right-hand four set of elements, not 20 elements, but portability options, and we have made this 21 request for two reasons. 22

The first is that most consumers desire to keep their existing telephone number when choosing a new local exchange provider, and the second reason is that these same

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consumers' needs and expectations differ as to the number 1 of numbers they need to have ported. Some people have only 2 one number, some have thousands. And it also varies as a 3 function of which call-related features each consumer needs 4 to have preserved when changing carriers. And as indicated 5 on this chart, headlined, "Route Indexing Portability Hub 6 and LERG Reassignment, " have the fewest performance 7 These two options in fact do have the cleanest deficits. 8 bill of health when it comes to customer effecting 9 performance deficits. In recognition of consumers needs 10 and expectations and the various limitations of all of 11 these portability options, GTE is -- or AT&T is asking GTE 12 to provide for all four of them. As the Commission 13 provides for access without artificial and unneeded 14 limitations, the unbundled network elements, the AIN, 15 interim local number portability and the monopoly control 16 17 central office space, rights of way, poles, conduits and dark fiber, it will literally light the path to an era of 18 facility-based competition and hasten the dawn of greater 19 consumer choice. 20

In conclusion, we are asking the Florida Commission to take action in three areas to speed entry into markets now served only by GTE. First, we ask you to direct GTE to provide the 12 unbundled network elements as well as any technically feasible combination of these

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elements. Second, we ask the Commission to direct GTE to provide the set of interim local number portability options requested by AT&T. And third, we ask that you direct GTE to provide access to AIN, central office space, rights of way, poles, conduits and dark fiber without artificial and unneeded limitations. Thank you.

7 Q Thank you, Mr. Crafton. Does that conclude your 8 summary?

A It does.

9

MR. TYE: Madam Chairman, the books that we 10 11 passed out earlier have these charts in them. I understand there may be a few books that don't have all the charts. 12 If anybody wants additional copies, we have some right 13 here. And the witness is available for cross examination. 14 CHAIRMAN CLARK: Ms. McMillin. 15 MS. McMILLIN: No questions. 16 CHAIRMAN CLARK: Mr. Gillman. 17 MR. GILLMAN: I'm up finally. 18 CROSS EXAMINATION 19 BY MR. GILLMAN: 20 Good afternoon, Mr. Crafton. 0 21 Α Good afternoon. 22 The chart -- well, on page 2 where you talk about 23 Q some of your qualifications, am I correct in assuming that 24 25 you are not an engineer?

I don't have a professional engineer's degree. Α 1 2 0 Okay. In your present position regarding, take a look at Page 3, does not require the exercise of 3 engineering expertise, does it? 4 Α I assume you are referring to my current role as 5 business manager. 6 That's correct. 0 7 8 Α It does not. However, I'm here today because of my 20 something years of experience with the network. 9 0 Okay. So your present job on, specifically on 10 11 line 10 and 11, one of your responsibilities is for the profit and loss of the local product portfolio of AT&T? 12 13 Α That's part of it. So you are here today based on your 20 years' 14 0 experience, but your job responsibilities are more for the 15 16 profit and loss aspect as opposed to the technical aspect 17 of these sort of issues? That's correct. 18 А 19 0 What specifically over the 20 years' dealings 20 have you had with AIN? Oh, I've been a part of a number of teams in the 21 Α last five or six years looking at the design and systems 22 engineering of AIN. 23 Q You didn't mention those in your gualifications? 24 25 Α I don't remember mentioning them. I have done a

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lot in 20 years, so I have trouble remembering it all. 1 2 0 And what specifically did you, was your role on these teams? 3 Generally, as a systems' engineer or as a network 4 Α architect in which we looked at things like the performance 5 and how AIN ought to be set up. 6 Were you assigned to the project of the test that 7 0 you refer with with Bell -- refer to regarding BellSouth on 8 9 AIN? No, I wasn't a part of that team. 10 Α Okay. Were you a part of any other team similar Q 11 to that? 12 Oh, yes, I have been. 13 Α The network that you depict, I guess behind you Q 14 might be the best way to look at it, how typical of that 15 is -- Or let me ask you this, did you look at any specific 16 GTE networks within Florida in preparing that chart? 17 No, we did not. Α 18 Have you done any investigation regarding GTE's 19 0 specific network in Florida? 20 Yes, I have. 21 Α Okay. And what was the nature of that Q 22 investigation? 23 Oh, understanding issues such as the types of 24 Α switches, local switches deployed in the network, what 25 C & N REPORTERS TALLAHASSEE, FLORIDA (904) 385-5501

1 software capabilities they might have.

Q What type --

2

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A Looking at things like the kinds of loops that are deployed in the network, specifically integrated digital loop carrier since there are often issues around it.

Q Okay. You're aware that GTE has instances where
8 there is integrated digital loop carriers involved?

A Yes, I understand that.

10 Q Okay. And that's not depicted on your chart, is 11 it?

12 A Well, yes, it is depicted on the chart. We show13 the loop concentrator and multiplexer element.

14 Q That is in element 3 there?

15 A That's right, and on either side of it the loop 16 feeder and the loop distribution elements. So those are 17 the kinds of elements -- what we have abstracted here is a 18 generic example. An IDLC is a specific example of those 19 three elements.

Q Okay. Are you familiar with the type of central offices that are in the Florida area?

A I've gained some acquaintance with that in thelast few weeks, yes.

Q Based upon information given to you by GTE in this proceeding?

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I think the first acquaintance I had with it came Α 1 from, I believe it was the local exchange routing guide. 2 It was not a GTE source. I have since received more 3 information from your company. 4 And what type of COs does the company have to 5 0 your knowledge? 6 What I noticed in your serving area are there are 7 Α something like 59 GTD 5-EAXs, a handful of 5-ESS systems 8 manufactured by Lucent, oh, a couple of Northern Telecom 9 DMS-100s and an assortment of miscellaneous. 10 Miscellaneous offices? 11 0 Miscellaneous office types. Α 12 Does your exhibit behind you depict a main cable 13 0 fed design? 14 A main cable fed design? It does in the sense Α 15 16 that the loop concentrator/multiplexer, as we've said, doesn't always appear on a loop connection. Some of them 17 are of the design that you, I believe, are referring to. 18 Am I correct in assuming in that particular 0 19 design they're essentially, the entire loop would be a loop 20 feeder? 21 No, that would be an inaccurate characterization. Α 22 Are you saying that there is loop distribution in 23 0 a main cable fed design? 24 Yes, there is. In the sense that there is an 25 Α

1 interface cross connect where one changes to the other.

Q In every instance?

A I'm sure that these loops have been engineered in some instances where that might not be true because there are such a variety, but I would say in general.

Q So in the instances where there may not be any
distribution loop, how would you propose to provide subloop
unbundling in that situation?

A Well, we have asked GTE that question.

10 Q Okay.

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11 A We believe it's incumbent on them under the Act 12 to provide unbundling of loops in order to comply with the 13 law.

Q Well, if you ask us to unbundle the loop at the loop distribution and GTE answers that there is no loop distribution, I mean what should GTE unbundle in that situation?

Well, in many cases there are alternate 18 Α facilities in place. What you normally find in a local 19 exchange carrier's loop plant is that you have varieties of 20 equipment coinciding with one another on the same sequence 21 of poles and conduits. So for instance, when you run into 22 23 a problem like that, with one type of loop plant, you can often roll the customer over onto a different neighboring 24 piece of facility and accomplish it. 25

1 0 When those problems come up, you are not really 2 going to know they are a problem until you go out there and check it; isn't that correct? 3 4 А I think it depends on how good GTE's records are on their loop plant. 5 Would you expect GTE to provide you unbundled 6 0 7 services based only on its records and not do a physical examination of the loop? 8 I wouldn't presume to tell GTE how to do its 9 Α business on that point. 10 Okay. It would not be unreasonable for GTE to be 0 11 able to go out and take a look at each one of your 12 requests, would it? 13 Again, I think it depends on the accuracy and 14 Α 15 completeness of the plant records, and I have no idea about those things. 16 17 0 Okay. And GTE does. So from the standpoint that GTE feels it reasonable -- I mean you wouldn't disagree 18 with that, that it may be reasonable in certain instances 19 to investigate your particular request for unbundling? 20 21 Α I quess if you're asking me is it okay for you to go and look at your plant, you certainly have my 22 permission, if that's what it takes. 23 And we would be able to look at the plant before 24 0 25 we make a commitment to unbundle it or not?

A I would hope that your loop plant records are in good enough shape that you could tell us when we ask you, but obviously if you can't, you don't know what you don't know.

Q All right. Now it would not be unreasonable in addressing an unbundled loop request from AT&T for GTE to do some investigation to determine the existence or nonexistence of these varieties of network situations that you described?

MR. TYE: Madam Chairman, I think that is the third time that question has been asked. It has been answered both times by the witness, that hopefully the cable records will show GTE what facilities they've got there.

MR. GILLMAN: The reason I'm asking again is that it wasn't answered. He said it would not be unreasonable for us to look at our plant, and now he went back to say, no, we shouldn't look at our plant, we should only look at our records.

20 MR. TYE: I believe what he said was he would 21 presume that the cable records would be in good enough 22 shape for GTE to assume what facilities it has got out 23 there.

24 CHAIRMAN CLARK: Okay. Mr. Gillman, ask your 25 question again for the last time. And if you would answer

1 the question.

2	WITNESS CRAFTON: Yes, ma'am.
3	BY MR. GILLMAN:
4	Q In considering a request for an unbundled,
5	subloop unbundled by AT&T, it would not be unreasonable for
6	GTE to investigate to determine whether what type of
7	plant or network situation was involved, would it?
8	A Since you are using the word, it would not be
9	unreasonable, I would say in response it would not be
10	unreasonable if your loop plant records are that poor. My
11	hope is that they would be good enough that that would be
12	unnecessary.
13	Q Let's look at page 3 of your testimony, of your
14	rebuttal testimony.
15	A Of the rebuttal testimony?
16	Q Specifically where you address the integrated
17	digital loop concentrator. Before we go on, do you know
18	what percentage of GTE lines in Florida utilize an
19	integrated digital loop concentrator?
20	A No, I don't know right offhand. I understand
21	that, and I believe the statistic is about 26 percent have
22	digital loop carrier on them. And frankly, I don't
23	remember whether that was integrated digital loop carrier
24	or that was all digital loop carrier. At any rate, it
25	certainly places an upper bound on the number.

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Q Do you agree with GTE that in order to unbundle a
 loop with integrated digital loop concentrator that some
 channel banks would have to be installed?

A I agree that deploying channel banks is one way
to unbundle an integrated digital loop carrier system.
There are perhaps as many as half a dozen other ways to do
it.

8 Q Okay. And is it up to GTE which way to do it? 9 A Yes, it would be. I don't think that -- Once 10 again, we would place a request for unbundling, and how 11 it's accomplished is up to you as long as the circuit 12 performs.

13 Q What if it entails additional costs, AT&T would 14 be expected to pay those, would they not?

A Well, it isn't clear to me with the number of entrants in the local market all requesting unbundled elements, and the requirement under the Act that GTE has to provide those elements, it's not clear to me how much of that cost you assign to AT&T versus all the other carriers that are going to be requesting these sorts of things.

21 Q And what if AT&T is the only party requesting 22 that particular loop?

A I think the way that would be calculated, Mr. Gillman, is it would be folded into the TELRIC based cost for the unbundled loop element; and beyond that, I'm

1 not very good at cost matters.

2	Q So let's assume that in respect to the integrated
3	digital loop concentrator situation that GTE chooses to
4	install two channel banks. GTE would have to the cost of
- 5	those channel banks would have to be incurred within the
- G	unbundled loop rate, is that what you're saying?
-7	That a what I'm gaving and I'm making a
,	A filde s what i in saying, and i in making a
8	presumption here along with you that the use of those
9	channel banks is in fact the most efficient way to do
10	this. That may not be the case, and I just want to caveat
11	that.
12	Q Doesn't the Act as well as the FCC order require
13	entrants who cause additional costs in upgrading or
14	conditioning the loop, that that entrant should pay for it?
15	A I don't remember what it says in the Act about
16	that.
17	Q Okay. Nor do you remember what is in the FCC
18	order about that?
19	A No, I don't right offhand.
20	Q Okay. But it's your opinion that all those costs
21	need to be rolled up into the unbundled loop rate?
22	A That's correct.
23	Q Have you reviewed Mr. Wood's testimony and the
24	Hatfield model?
25	A I have a nodding acquaintance with it. I can't
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1 tell you that I can give you chapter and verse on that.

Q Would you agree with me that the installation of two additional channel banks or 26 percent of GTE's lines is not included within that study?

5 A Q I don't know whether it is or isn't; you
6 might want to ask Mr. Wood.

7 Q But if Mr. Wood asked you, then you would, of 8 course, say that they ought to be included, would you not? 9 A It seems to me like that ought to be part of it. 10 Q Do you expect GTE to install these digital, these 11 concentrators on a loop before AT&T asks for it? 12 A No, I don't think that that would be necessary,

A No, I don't think that that would be necessary, unless that is something you need to do to comply with the Act because you are getting requests from others.

Q Okay. So take an example of where AT&T would ask for subloop unbundling and it had an integrated digital loop concentrator, GTE would have to look at its records or do whatever investigation it feels -- or you feel necessary to identify what it would take to provide that unbundled loop, would it not?

A Yes, I think that is what we were talking about a few minutes ago, isn't it?

Q In essence, each one of AT&T's requests would behandled by GTE on a case by case basis?

A Well, certainly we are going to send you requests

that are individual requests for customers for whom we use the unbundled loop. And we would have to look on those requests on a case by case basis, wouldn't we? Α I think that would be a normal thing to do. Q Thank you. Now on page 7 of your testimony where you list the 12 elements -- I'm sorry, are you there? Α I'm with you. GTE has agreed to unbundle the network interface device, has it not? А Yes, I believe that's the case. (Transcript follows in sequence in Volume 4) C & N REPORTERS TALLAHASSEE, FLORIDA (904) 385-5501