

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Petitions by AT&T) DOCKET NO. 960847-TP
Communications of the Southern) DOCKET NO. 960980-TP
States, Inc., MCI)
Telecommunications Corporation)
Transmission Services, Inc., for)
arbitration of certain terms and)
conditions of a proposed)
agreement with GTE Florida)
Incorporated concerning)
interconnection and resale under)
the Telecommunications Act of)
1996.)
_____)

THIRD DAY -- AFTERNOON SESSION

VOLUME 16

Pages 1739 through 1905

PROCEEDINGS:

Hearing

BEFORE:

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

DATE:

Wednesday, October 16, 1996

PLACE:

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APPEARANCES:

(As heretofore noted.)

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P R O C E E D I N G S

(Transcript follows in sequence from Volume 15.)

DON J. WOOD

having been called as a witness on behalf of MCI/AT&T, and being duly sworn, continues his testimony as follows:

CONTINUED CROSS EXAMINATION

BY MR. FUHR:

Q All right. Do you have a copy of your Rebuttal Testimony?

A Yes, sir; I do.

Q On page 2 of your Rebuttal Testimony you discuss or respond to the criticisms that Dr. Duncan has raised with respect to the relationship of the Hatfield Model and the benchmark cost model; is that correct?

A Well, nearly so. I describe here my interpretation of his criticisms. And what becomes clear when you read them is that he's looking at a version of the model that's based on BCM1, not one that's based on BCM-PLUS.

Q To the extent this language suggests that the models are unrelated, that's not exactly accurate, is it, given the explanation that you have tendered in terms of the genealogy of these different models?

A Well, I certainly didn't intend to state anything here that isn't fully accurate. Let me be very clear. Dr. Duncan has looked at several specific areas of criticism. He's not

1 talking about the models generally. He's named off four or
2 five very specific issues. Those specific issues only relate
3 to BCM1 and do not relate to BCM-PLUS. So with regard to the
4 context of Dr. Duncan's testimony, it would be accurate to say
5 that with regard to those issues the models are unrelated
6 because they're simply different with regard to each of those
7 issues.

8 Q But would you not agree that if BCM-PLUS is related to
9 BCM1, then Hatfield Release 2 is necessarily related to BCM1?

10 A Well, I don't want to -- I have a lot of relatives and
11 I wouldn't want to taint them based on my flaws. Certainly
12 BCM1, no bones about it, is part of the ancestry to the current
13 version of the Hatfield Model. There were some identified
14 shortcomings in BCM1, including all of the criticisms made by
15 Dr. Duncan that were fully addressed in BCM-PLUS, which is what
16 is being used here. So, there were no -- There was nothing
17 identified that was an uncorrectable flaw. And, in fact, all
18 the flaws were in fact corrected that Dr. Duncan refers to. So
19 in that sense, to the extent be BCM1 is on the ancestry, that's
20 really not relevant with regard to the issues that I'm
21 discussing in my Rebuttal Testimony.

22 Q You discuss in here and Dr. Duncan has discussed also
23 the principle of linear homogeneity; is that right?

24 A Yes, sir.

25 Q And would you give a 30-second definition of what you

1 understand that principle to be?

2 A I'll give you a 30-second definition that hopefully
3 won't include any of the math that he included, although his
4 calculations were impressive. Essentially it's a principle and
5 it's a theoretical classroom principle that you then apply in
6 practice, that essentially says if you look at all the inputs
7 to a model and you increase them all systematically, say by
8 10%, that if the model is functioning correctly and
9 theoretically perfectly, you would then see all of the outputs
10 increase by exactly 10%.

11 Now in practice, you know, I'm just a nuts and bolts
12 cost guy, so I'm not discussing Dr. Duncan's theory at all.
13 I'm sure it's correct. But cost models, including Hatfield,
14 including COSTMOD, including SCIS, are not built based on a
15 derivation of theoretical cost functions. They're a nuts and
16 bolts process that are built from the ground up. So you would
17 expect them to very nearly fit this test and it's certainly
18 reasonable to apply the test, but you don't expect a perfect
19 ten. I would think if you, you know, you saw numbers on an
20 increase of inputs at 10% and you saw numbers between 9 and
21 11%, that would certainly give me quite a bit of comfort that
22 the model was in fact functioning correctly with regard to this
23 constraint. And that's what you see with the current release
24 of the Hatfield Model.

25 He provided some data in his Rebuttal Testimony that

1 would not occur in the current version of the Hatfield Model
2 but would only occur in the BCM1 Model.

3 Q And would it be fair to say that as you move further
4 away from the 9 and the 11% figures that you just referenced,
5 your concerns with respect to the integrity of the model would
6 increase?

7 A Would increase somewhat, although I can tell you that
8 the results I have show that those in fact are the upper and
9 lower bounds. Well, to be exactly precise, there's a lower
10 bound of 8.999%, so we'll call that 9, and an upper bound of 10
11 and a fraction, perhaps 10.36. So, for an across-the-board 10%
12 increase, we have results that increase between 9 and about 10
13 and a half percent. For real world actual working model,
14 that's pretty tight. I would be very interested in seeing this
15 analysis run on COSTMOD, because based on what I know about the
16 model, I don't believe the range would be this small at all; I
17 think it would be much larger.

18 Q So that I'm clear: You agree that the linear
19 homogeneity principle is a principle that is and may be validly
20 applied to this cost model; correct?

21 A Well, it can be applied to any cost model as long as
22 you're very careful that you're taking a construct from the
23 classroom and applying it out here in the real world and
24 sometimes that works better than others. In this case what we
25 find is that it works okay; that if you run this model, you do

1 the across-the-board 10%, you get a pretty tight range around
2 10% with regard to outputs. That's not to say that this model
3 was developed the way Dr. Duncan describes, which is starting
4 with a grand cost function and working from that; that's not
5 how cost models get done in the real world. In this case,
6 though, the test is borne out.

7 Q Do you have any criticism of any of the mathematical
8 analysis that Dr. Duncan has provided?

9 A I am absolutely certain that Dr. Duncan's arithmetic
10 is correct.

11 Q Okay. You are also familiar, are you not, with the
12 derivative property?

13 A Yes.

14 Q And that is a second technical principle that may be
15 applied to a cost model?

16 A Well, it's actually very related to this one. It's
17 simply taking the first derivative of the cost function; so
18 we're talking about change in both regards.

19 Q And what do you understand that that principle results
20 in when you apply it?

21 A I'm not sure what you mean.

22 Q That's not well phrased. What is your understanding
23 of that principle?

24 A Well, as I understand Dr. Duncan's testimony, we're
25 not talking about really distinct concepts here. We're talking

1 about if you have -- If you take a first derivative of the cost
2 function, what you're really trying to get at is this input/
3 output change relationship. So I don't think we're talking
4 about distinct principles here, at least not out here in the
5 nuts and bolts real world.

6 Q Mr. Wood, have you attempted to compare the results
7 for BCM2 for GTE Florida with your Hatfield Model results?

8 A 'No, sir.

9 Q So you simply would not know what those numbers are
10 and how they compare; is that accurate?

11 A Well, based on what I know about BCM2, there really
12 wouldn't be any reason to do that comparison because BCM2
13 includes expenses on a basis that really is a true-up to
14 revenue requirement, if you will. It's what we generally refer
15 to as something very near a fully distributed cost model and I
16 don't think that's appropriate here. I don't think that's
17 consistent with previous orders of this Commission. So there
18 really wouldn't be any reason to look at it.

19 Q Are you aware that these results, meaning the BCM2
20 results, are included in the GTE cost filing in this
21 proceeding?

22 A They may very well be.

23 Q And you simply haven't looked at those; correct?

24 A Well, that's right. Again, based on what I know about
25 BCM2, there wouldn't be any reason to.

1 MR. FUHR: Chairman Clark, that concludes my
2 examination.

3 CHAIRMAN CLARK: Staff.

4 CROSS EXAMINATION

5 BY MS. BARONE:

6 Q Good afternoon, Mr. Wood.

7 A Good afternoon.

8 Q Do you have Staff's Exhibits DJW-5 through 8?

9 A Yes, I do.

10 Q Have you had an opportunity, with respect to DJW-5
11 through 7, an opportunity to review those?

12 A Yes.

13 Q And were they prepared by you or under your
14 supervision?

15 A The responses themselves were. With regard to No. 7,
16 of course, we're attaching a document that was not prepared by
17 me but was supplied by me. But, yes, all of the responses were
18 prepared subject to my supervision; that's right.

19 Q Thank you. And are they true and correct to the best
20 of your knowledge and belief?

21 A I believe they are, yes.

22 MS. BARONE: Thank you. Madam Chairman, Staff
23 requests that DJW-5, 6 and 7 be marked for identification
24 separately at this time.

25 CHAIRMAN CLARK: Separately?

1 MS. BARONE: Yes, ma'am.

2 CHAIRMAN CLARK: Okay.

3 MS. BARONE: I believe that begins with 42.

4 CHAIRMAN CLARK: That's right. DJW-5 will be 42.

5 DJW-6 will be 43 and DJW- 7 will be 44.

6 (Exhibit Nos. 42, 43 and 44 marked for
7 identification.)

8 BY MS. BARONE (Continuing):

9 Q Sir, with respect to DJW- 8, that is your deposition
10 transcript dated 10/1/96, do you have any changes or
11 corrections to make?

12 A No, other than the normal, occasional transcription
13 typographical error, there is nothing that I've seen of
14 substance. So I would not propose changes to that document.

15 MS. BARONE: Thank you. Madam Chairman, Staff
16 requests that this exhibit be marked for identification as
17 Exhibit No. 45 at this time.

18 CHAIRMAN CLARK: It will be marked as Exhibit 45.

19 MS. BARONE: Thank you.

20 (Exhibit No. 45 marked for identification.)

21 BY MS. BARONE (Continuing):

22 Q Sir, a forward-looking network operations factor with
23 a value of .700 was used in the model; is that correct?

24 A Yes, that's right.

25 Q And am I correct that most factors in the model are

1 based on ratios of historic expenses to the investments to
2 which they're associated?

3 A It's based on the ratio, yes, not the absolute levels;
4 that's right.

5 Q And what was the primary source you used to derive the
6 expense factors that were used in the model?

7 A Well, again, going with the best available public
8 strategy, most of these came from ARMIS and then whether it has
9 been publicly provided data that suggests that an adjustment is
10 appropriate, those type of adjustments have been made and the
11 example you gave here of the network operations factor is that
12 type of adjustment.

13 Q Sir, was that the 1995 ARMIS Report?

14 A Yes.

15 Q So am I also correct that by using the default value
16 for the forward-looking network operations factor, it is
17 assumed that network operations expenses will be reduced by 30%
18 from the historic levels?

19 A That's right. And, again, there's data that suggests
20 30, there's data that suggests about 56; so we took the low end
21 of that range to go with the 30.

22 Q Sir, Staff now is handing you an excerpt from Part 32
23 of the Code of Federal Regulations; that's also known as the
24 Uniform System of Accounts. Would you refer to that and tell
25 me specifically what expense account items are included in

1 network operations expense, please?

2 A Yes. It actually encompasses all of 32.6530. Of
3 course, that account is the roll up of the subsequent accounts
4 that are listed after it, but it's based on that account.

5 Q And would you enumerate those for me, please?

6 A Sure. Within I guess what I'd call sub accounts,
7 within "Network operations expenses" are "Power expense,
8 Network administration expense, Testing expense, Plant
9 operations administration expense, and Engineering expense."
10 And then I think the next accounts starts out with a different
11 category, so we're talking about those five.

12 Q With respect to "Power expense," would you please read
13 the description for me.

14 A "This account shall include the cost of electrical
15 power used to operate the telecommunications network."

16 Q By applying the .700 forward-looking network
17 operations factor, isn't it true that the effect is to assume
18 that the power expense will be reduced by 30% relative to the
19 1995 levels?

20 A Not quite. The .7, the 30% reduction is being applied
21 to the roll-up account, the 6530 account. It doesn't
22 necessarily assume that all of the sub accounts will
23 necessarily decrease by that same amount. Some may decrease
24 very little. Some may decrease quite substantially. It's a
25 netting-out process at the roll-up account, the 6530 level, at

1 which the factor is applied.

2 Q Would that also hold true for testing expense and
3 general engineering?

4 A Yes. It will hold true for all of these. And, quite
5 honestly, I would expect power not to constitute a big piece of
6 that 30%, although it may be some, because there is certainly
7 equipment that can be purchased today that is not the power
8 hogs that we used to see in central offices, so there may very
9 well be some. Certainly some of the engineering and the plant
10 operations are more likely sources for these decreases.

11 Q Do you know what the impact of using this forward-
12 looking network operations factor is on the model's computed
13 total loop costs?

14 A No, I have not run that particular sensitivity
15 analysis.

16 Q Would you accept, subject to check, that using the
17 .700 factor reduced total loop costs by 62 cents per month?

18 A That sounds reasonable to me. I'm sure if Staff has
19 run that particular sensitivity that it's correct.

20 Q Sir, I would like to turn to page 2 of your Exhibit,
21 DJW-2?

22 A I'm sorry, I'm not marked completely. So if you could
23 describe it to me I can find it quicker.

24 Q Okay.

25 A Oh, yes.

1 Q And I'm referring to the structure fraction assigned
2 to telephone numbers and that's page 2 of 25 at DJW-2, it was
3 attached.

4 A I'm getting the document. It's the .33 is the
5 fraction I think you're referring to.

6 Q Yes, sir.

7 A Yes. And, yes, I now have it in front of me.

8 Q Could you explain what these numbers are and how they
9 are used in the model?

10 A Sure. It's very rare that a telephone company or a
11 power company or a cable company actually goes out, puts poles
12 in for its exclusive use and runs only its facilities and then
13 next door to those you'd have another set of poles for the
14 other company and another set of poles. In fact, utilities
15 make use of each other's structure quite often, often enough
16 that they get into disputes about what the lease rates ought to
17 be from the company that placed the structure to the company
18 that is utilizing it.

19 If we just ran the model to say that we assume that,
20 in this case, GTE Florida is going to place all its own poles,
21 won't lease out any of that space to anybody else or won't take
22 advantage of existing poles and leasing space on them, then
23 we're going to overstate the structure costs perhaps
24 significantly, certainly to some degree. And this -- I'm using
25 poles as an example. This would also apply to conduit and

1 trenches and that sort of thing.

2 What this assumes is that there will be -- In the most
3 likely scenario is that there will be three utilities, perhaps
4 power, telephone and cable, that will be making use of these
5 facilities. So, rather than assign the full cost of the
6 facility just to telephone, we've given it its one-third share
7 and power and cable, for example, the other one-third share.

8 Q Sir, I think earlier you stated in response to
9 Mr. Fuhr's questions that a scorched node approach is used. In
10 reference to that, why is it appropriate to assume that
11 structures, that there will -- that the structures will be
12 shared?

13 A Well, we don't want to do selective scorching here.
14 If we're going to scorch the telephone, we'd better go ahead
15 and scorch power and cable at the same time or not scorch them,
16 as the case may be.

17 If we're looking at existing switch locations and then
18 working from those routes as they emanate from the central
19 office, what we're scorching is the location of those specific
20 routes necessarily. To the extent that telephone, power and
21 cable were all going to rebuild in that environment at the same
22 time, we'd probably find an even greater incidence of sharing
23 of these facilities than we find historically because as time
24 goes on, at least with regard to tele- -- certainly with regard
25 to telephone and increasingly with regard to cable and power,

1 they're finding new incentives to decrease costs and be more
2 efficient. So if we really scorched everybody and had
3 everybody build from these locations going out from scratch,
4 we'd probably see even more sharing of facilities rather than
5 less, but certainly it would still be reasonable to assume the
6 sharing.

7 Q Am I correct that the model run for GTE Florida
8 assumed there would be buried cable?

9 A I'm sorry; assumed it would be --

10 Q Buried cable.

11 A Depending on the type of plant you're talking about,
12 there will be some buried cable; I think that's right.

13 Q So you assumed it in the model, that there would be?

14 A That's right. And it will be a different amount
15 percentage that's buried for feeder or distribution, for
16 example, but there is some buried cable.

17 Q Now to install buried cable, a LEC incurs costs
18 associated with trenching; correct?

19 A Sometimes yes and sometimes no. The actual instrument
20 that's used or piece of machinery, I guess is a better term,
21 doesn't really dig a trench. And I've been watching one
22 recently in my subdivision. So I've got at least that bit of
23 firsthand experience. It actually has a blade that cuts a
24 hole, the fiber or the cable is actually fed down through the
25 blade and placed directly, and the blade moves on, so there's

1 not an opening of a trench and a closing of a trench. It's --
2 I don't know what the engineering term would be -- sticking it
3 down there directly comes to mind, but it's not necessarily a
4 trenching process. And I think this is actually much cheaper
5 than opening and closing a trench.

6 Q But the Hatfield documentation assumes that there is
7 going to be trenching costs of \$45 per foot; is that correct?

8 A That's right. And to the extent that there is a
9 cheaper way to do it, there is some overstatement of costs
10 here.

11 Q Now by using a structure factor .33 then, there's only
12 \$15 per foot for trenching attributed to telephone service; is
13 that correct?

14 A If I understand your question correctly, you're right.
15 Actually no one has asked it quite that way before. Let me
16 think about that for a minute. Yes, the answer is yes.

17 Q But the LEC presumably spent \$45 per foot for
18 trenching, so who's paying the other \$30?

19 A Well, actually, the middle assumption is the one that
20 may not be right and, that is, when you look at areas that are
21 being developed -- And I happen to be living in the middle of a
22 construction zone, so I'm seeing some of this stuff. You're
23 seeing trenches opened and three or four utilities actually
24 coming out and using that. And it's probably not even any of
25 the one of the three utilities that's digging the trench. What

1 I've seen are subcontractors digging a trench, utilities making
2 use of it jointly, they're coordinating their efforts as they
3 put their facilities in place to save money. And as the
4 incentive to save money increases, I think we'll see these guys
5 getting together more.

6 So, the answer to who else pays for it is whoever else
7 is putting facilities in that trench and at least in this case
8 it was cable and power.

9 Q So in your opinion would it be normal procedure for a
10 LEC to seek out other service providers to share the costs of
11 trenching before they install the buried cable?

12 A If it hasn't been standard procedure in the past in a
13 rate of return environment, and I can see where maybe it
14 wouldn't be, going forward, if they're right in what they tell
15 us about the new incentives of competition and the new
16 incentives of a price cap arrangement, then I think we have
17 every reason to expect it to become standard procedure. I
18 think they're going to find -- They're some very qualified
19 people running these companies; they'll find ways to save money
20 and this one appears to be a pretty obvious one that they can
21 make use of.

22 Q Do you know what percent of GTE Florida's conduits are
23 shared by other kinds of providers?

24 A No, I don't.

25 Q Do you know what percent of GTE Florida's telephone

1 poles are shared by other kinds of providers?

2 A No. And, again, we don't want to look at what's in
3 place today. We want to look at on a going-forward basis what
4 the number would be and what the sharing would be and if they
5 have got more incentive to share in the future, we're going to
6 see more of it, but certainly there is some today.

7 Q Mr. Wood, would you accept, subject to check, that
8 using the .33 factors reduced the total loop costs computed by
9 the Hatfield Model for GTE Florida by almost \$4 a month, \$3.90
10 to be exact?

11 A Again, I haven't run that analysis, but if Staff has
12 run it, I'll accept your figures. Again, I guess I'm glad to
13 see that Staff has made use of the model to run the sensitivity
14 analysis.

15 Q When a telephone company installs copper cable, is the
16 kind of cable that could be suspended on telephone poles
17 identical to the kind of cable that could be buried in the
18 ground?

19 A No, it will be a little bit different. Often the
20 suspended cable will have additional facilities that will
21 control the stretch. If you have ever looked at lines on a
22 pole in the summer, they sag quite a bit more than they do in
23 the winter. And, similarly, if you're going to bury cable
24 directly and not put it into a conduit, you're going to make
25 sure that there is a sheath that will protect from water entry.

1 So there is going to be some difference. There's not always a
2 big cost difference. It's a much bigger driver to go to, from
3 a, say a 20-pair cable to 3600-pair cable. That makes much
4 more difference than some of these other characteristics, but
5 there will be some different ones.

6 Q Is the price of cable that could be suspended on poles
7 identical to the price of cable that could be buried in the
8 ground?

9 A No, again, it won't be identical. It will be
10 different but it won't necessarily -- That won't necessarily be
11 the factor that drives the difference.

12 Q So does the Hatfield Model assume that the materials
13 price of aerial cable differs from that of underground cable?

14 A Well, it's got a different set of assumptions. And
15 let me get on the right page. The costs that you see there are
16 not always different, but they're changeable to reflect the
17 possibility.

18 Q I believe that's C-1.

19 A It's on C-1. I was actually also looking at the
20 document that has the column that describes the sources. But,
21 at any rate, you're going to see -- Where you see, you're going
22 to see two different columns here for Hatfield inputs, so that
23 it's clear that for different types of cables that will be used
24 in different ways like that, that the model will accommodate
25 differences in costs. To the extent that a significant

1 difference in costs hasn't been identified, then you'll see
2 essentially the same inputs being used but these are user
3 definable. So if there were a demonstration made, that there
4 were a very significant difference, we could plug that straight
5 into the model; it wouldn't require any additional effort to
6 accommodate that.

7 Q So are you saying the Hatfield Model does not assume
8 that the materials price of aerial cable differs from that of
9 underground cable?

10 A Well, I'm sorry, let me catch up with you on C-1.
11 In this case, well, I guess let's pick one. If we look at
12 fiber feeder cable investment per foot for an underground and
13 for aerial, there are two columns and two sets of inputs to
14 accommodate differences in costs. Now in this case, there
15 haven't been significant costs that are identified, so the
16 numbers are the same. But it's possible to make the numbers
17 different within the structure of the model without any
18 problems.

19 You are going to have some tradeoffs. If you want to
20 suspend a cable, you'll have to make it a little stronger but
21 the sheathing doesn't have to be as significant. If you're
22 going to bury it, you'll need to make it, add some water
23 protection but it doesn't have to be as strong. So there are
24 some tradeoffs that ultimately the costs aren't dramatically
25 different. But if we were to find that they were different,

1 the model is set up to accommodate that.

2 Q And, sir, for the record are you looking at "BCM-PLUS
3 Loop Module Inputs"?

4 A Yes, that's right.

5 Q And you are referring to "fiber feeder cable
6 investment per foot"?

7 A That's right, which is on the left, kind of in the
8 left hand middle, I guess. And what you see there is the cable
9 size makes a very big difference in the cost per foot, but that
10 we haven't identified a big difference in the cost per foot
11 with regard to aerial versus underground.

12 Q And are those figures identical or not?

13 A Yes, they are. That's what I'm saying. The cables
14 are certainly different for aerial and underground, but there
15 are tradeoffs that make the costs very similar. To the extent
16 that the costs are found to be different, we can plug that
17 right in. It's not a big exercise.

18 Q Mr. Wood, would you please turn to page 6 of your
19 Direct Testimony, beginning on line 15, continuing through to
20 19, where you state, "In contrast to the difficulty often
21 experienced when attempting to evaluate ILEC cost studies and
22 the underlying models, a review of the Hatfield Model can be
23 direct and straightforward. Complete and detailed
24 documentation of the model is available including descriptions
25 of both the model algorithms and the inputs and assumptions

1 used."

2 Is the documentation to which you refer as a document
3 titled "Model Description, Hatfield Model, Version 2.2 Release
4 2"?

5 A Well, it's certainly that in part. And I think that's
6 the DJW-4 Exhibit, and that certainly comprises a very
7 significant part of this documentation. The follow-up list of
8 inputs and the description of the sources is another piece of
9 that puzzle, if you will. And certainly the availability of
10 the software on the public basis to be reviewed is part of that
11 documentation process.

12 What I'm describing here is not intended to refer to
13 some single document so much as everything that's being
14 provided here, which contrasts quite starkly with what's
15 typically provided publicly by the incumbents.

16 Q I would just like to clarify something. I have DJW-4
17 and it states that it's the Hatfield Model Unbundled Network
18 Element Summary; it's not all of the documentation?

19 A Okay. Then I've just missed -- I made a reference
20 that's incorrect. I thought that what was added to -- Yes, the
21 document that Mr. Melson has was DJW-4. If it's not, we can
22 dispense with the exhibit number and go straight to the title.

23 Yes, I'm sorry. Is this what we're talking about?

24 Q We're talking about the Hatfield documentation and I
25 believe it's now Staff's Exhibit previously identified as 6.

1 MR. MELSON: Madam Chairman, I believe it's also
2 Exhibit 41, which was DJW-4. I don't know if they're talking
3 about two different documents or the same one.

4 MS. BARONE: Okay. Thank you.

5 BY MS. BARONE (Continuing):

6 Q Sir, on what date did you file your Direct Testimony?

7 A Let's see. I'm sorry. The AT&T testimony was filed
8 earlier, but as I understand the process we went through, we're
9 actually adopting the August 26th MCI testimony for both
10 proceedings. So, August 26th.

11 Q When did you file the AT&T testimony?

12 A Before then. I don't have a cover page with a date.

13 Q Would you agree, subject to check, that you filed that
14 on August 16th, 1996?

15 A That sounds about right.

16 Q Sir, earlier you said that 2.2.2 was available on
17 August 20th, 1996. How would GTE Florida have gone about
18 obtaining the model and its documentation at that time?

19 A The models, it's International Transcription Service,
20 I think. It's ITS. It's a service that provides these type of
21 documents and they would contact them directly. I believe
22 there's a reference in the documentation and was a -- There was
23 also a reference in the earlier version of the documentation,
24 which they would have had access to, that tells you how to get
25 in touch with those folks.

1 Q Is the Hatfield Version 2.2 Release 2 that you used to
2 prepare your exhibits the same model that was submitted as an
3 ex parte filing with the FCC in CC Docket 96-45, and that's the
4 universal service docket?

5 A I'll have to -- I don't recall the date on 96-45. I'm
6 sorry.

7 Q Do you recall filing that in that docket?

8 A I believe that AT&T did, yes, but, quite honestly,
9 depending on the date of the filing, it would have been a
10 different version of the model. And I honestly don't recall
11 what the current version of the model was at the time that
12 filing was made.

13 Q Are you stating that there were two different versions
14 filed as an ex parte filing?

15 A No. No, no, no. No. Only that there's been a
16 Release 1 and now a Release 2 and I simply don't recall the
17 date of the FCC filing to know whether it was made before or
18 after Release 2 became available.

19 Q Sir, I'm not looking for the date. I just want to
20 clarify that the 2.2 Release 2, that you prepared or you used
21 in preparing your exhibits was the same model that was
22 submitted as an ex parte filing in that docket. I don't want
23 to know the date. I just want to know whether it's the same
24 documentation that was filed.

25 A Well, and that's what I'm trying to figure out and the

1 date is kind of a key piece of that. I know that this version
2 has been provided as an ex parte filing, but with regard to the
3 specific docket you referenced, I don't know whether it was
4 this version or the previous version. And I simply don't know.
5 If I had the date, it would be a pretty good hint, but I don't
6 have it here.

7 Q Would you agree, subject to check, that Hatfield 2.2
8 was filed with the FCC on September 10th, 1996?

9 A I would certainly agree to that, subject to check.

10 Q And with respect to what was filed, do you know -- I
11 know you don't know the date -- but do you know exactly what
12 was filed, whether it was the documentation, whether model
13 printouts were filed, whether the model was filed on CD-ROM?

14 A I expect the answer is all of the above, but I was not
15 responsible for preparing that package and I really wasn't
16 involved in preparing it. So, that's the best answer I can
17 give you.

18 Q Sir, earlier you referred to ITS. Am I correct that
19 once the ex parte filing was made, the model on CD-ROM was then
20 available for purchase from ITS?

21 A It's my understanding that that's the requirement,
22 yes, associated with ex parte filings.

23 Q So the first time the model was publicly available
24 then for review and evaluation was on or after September 10th
25 1996; is that correct?

1 A With regard to this version from the ITS source, I
2 guess that's right. To the extent -- It's certainly been
3 provided publicly prior to that date because the FCC ex parte
4 filing was not the first time that 2.2.2 had been provided.
5 It's been provided to the staffs of a number of different
6 commissions, state commissions, prior to the FCC filing. We
7 don't always want to wait on the FCC. And it has been made
8 available to some intervenor parties prior to that date, too, I
9 believe.

10 Q But it wasn't distributed broadly or, in other words,
11 did GTE Florida have access to it at that time?

12 A I don't know whether GTE Florida had access to it or
13 not. I know other companies asked for it and were given a
14 copy. I know specifically that US West did so. So I suspect
15 that if GTE asked, they got it on the same basis.

16 Q So, in other words, if people asked or companies asked
17 for it, they could get it, but it wasn't publicly available
18 until September 10th, 1996, or thereafter?

19 A Yeah, I mean, it's not that we were holding it back.
20 It's just that we don't really have a distribution system in
21 place for this thing. It was purely a case of developing the
22 current version to be released and then, once it was ready,
23 certainly provided to anyone who asked for it. And once we
24 then went through the ex parte filing process at the FCC, we
25 then had the ITS form of distribution that people could avail

1 themselves of. But it wasn't a case of wanting to hold the
2 model back; it was simply a case of neither Hatfield, AT&T or
3 MCI are really in the computer software distribution business,
4 so we really didn't have those distribution channels to use.

5 MS. BARONE: Thank you, Mr. Wood. That's all I have.

6 CHAIRMAN CLARK: Questions, Commissioners.

7 Mr. Melson.

8 MR. MELSON: I have just a few.

9 REDIRECT EXAMINATION

10 BY MR. MELSON:

11 Q Mr. Wood, if you could go back to Exhibit 41, which is
12 the model description for the Hatfield Model.

13 A Yes, sir.

14 Q I believe Mr. Fuhr asked you if there was a
15 description in there of the relationship between effective fill
16 factors or realizable fill factors and engineered fill factors.
17 Could you turn to page 20 and see if that is the discussion you
18 were attempting to locate earlier?

19 A Yes, I believe this paragraph actually appears in more
20 than one location, but this is certainly one of them. It's a
21 paragraph in the middle of the page that says, "The effective
22 fill factors achieved by the Hatfield Model are even lower than
23 the engineered fill factors because the model requires that the
24 next larger available cable size be installed to accommodate
25 the engineered fill."

1 And, of course, the engineered fill are the figures
2 that are in the documentation that Mr. Fuhr and I were looking
3 at. So, this is at least one instance of the paragraph that I
4 was looking for at the time.

5 Q As a follow-up to Staff's last line of questioning, if
6 Dr. Duncan stated in one of his exhibits that he received a
7 working version of 2.2 Release 2 on August 26th, you wouldn't
8 have any reason to doubt that; would you?

9 A No, not at all. Again, anybody who asked for it was
10 provided a copy, so that he could certainly very well have had
11 that version earlier.

12 Q Let me ask you to assume for a moment that the FCC
13 Order did not exist.

14 A Yes, sir.

15 Q In your opinion would the Hatfield Model comply with
16 the pricing standards of the Telecommunications Act of 1996?

17 A Yes, sir. And that's one thing I described before.
18 Good economic costing principles really are good economic
19 costing principles with or without the FCC interpretation. So,
20 in that regard I think the Hatfield Model would be fully
21 compliant with the Act and fully compliant with previous
22 decisions of this Commission regarding TSLRIC calculations.

23 Q I believe in response to a question by Mr. Fuhr about
24 linear homogeneity, you indicated that you believe that the
25 model, if you varied the input assumptions by 10%, the model

1 would produce output results that varied from the base case, I
2 believe you said by 8.999 to 10.36%; is that correct?

3 A Yes, that's right.

4 Q What's the basis for that statement?

5 A Well, in response to the expression of Dr. Duncan's
6 concerns, clearly in his testimony he was talking about Release
7 1, which is not what's being filed, but I wanted to make sure
8 that once the changes that had been made from BCM1 to BCM-PLUS
9 had been made, that the Hatfield Model Release 2 was much
10 tighter range, as I fully expected it to be. I had the model
11 run; now it takes a while to change 200 inputs or 400 inputs.
12 So we weren't able to do all the states, but I did have it run
13 for the State of Texas because that's Mr. Steele's home state
14 and I thought he might enjoy that. The results of that run are
15 a total loop change of 9.52% on the outputs and a range among
16 all the elements of the 8.999 to the 10.360.

17 Q I believe you also indicated in response to a question
18 that you would like to see a linear homogeneity test applied to
19 COSTMOD. Can you tell me what COSTMOD is?

20 A Yes, COSTMOD is the primary costing model that GTE
21 uses to conduct its studies and it's been using some version of
22 this model for several years now. Like the Hatfield Model,
23 there are multiple versions of COSTMOD and it has a version
24 number on it as they use it. It also, having reviewed it,
25 although on a limited and proprietary basis, in other places

1 and, in fact, including here, in 900633, what's clear is that
2 without divulging anything proprietary, that model uses the
3 type of multipliers --

4 MR. FUHR: I'm going to object to the answer to the
5 extent it goes on and it's not responsive to the question. It
6 was not disclosed in the deposition and apparently it's also
7 based on some sort of review of proprietary information.

8 MR. MELSON: I believe it was an appropriate follow-up
9 to a question that Mr. Fuhr asked today. If they neglected to
10 ask it in the deposition, I don't think that should limit the
11 witness' response.

12 CHAIRMAN CLARK: I will allow the question.

13 WITNESS WOOD: Well, if you look at -- And I won't
14 divulge anything proprietary because I'm very careful about
15 that. But having looked at that model, it contains the type of
16 multipliers that Dr. Duncan referred to as I guess what I'd
17 call his primary suspect of where the lack of linear
18 homogeneity in BCM1 might come from. Based on that type of
19 examination, I'd be very interested to see this analysis of
20 COSTMOD because I believe it contains exactly the type of
21 calculations that Dr. Duncan expressed a concern about.

22 BY MR. MELSON (Continuing):

23 Q And, finally, you were asked couple of questions by
24 Staff that were based on apparent model runs that Staff had
25 performed with different assumptions regarding the adjustment

1 to network operations expense and different assumptions
2 regarding the sharing of poles, conduits and so forth; do you
3 recall those questions?

4 A Yes, I do.

5 Q In your judgment, would it be reasonable to assume for
6 network operations expense that the forward-looking costs are
7 going to be exactly equal to the historic costs?

8 A Well, no, I think there's good evidence to suggest
9 that that won't be the case, which is why we've adapted some of
10 that information into the model. Again, we've used the lower
11 end of the range. And I haven't commented on whether I
12 think -- I mean, I don't know the purpose that Staff has
13 intended in its sensitivity analysis, so I haven't commented on
14 whether it's appropriate or not. Certainly that type of
15 analysis is exactly what a public version of the model is
16 intended to facilitate. So in that regard I think it's
17 absolutely worthwhile. But I would certainly expect network
18 operations expenses to decrease. So you'd have some factor
19 less than one that ought to be applied.

20 Q And would you -- What would be your expectation about
21 the appropriate level of a factor for sharing of poles,
22 conduits and so forth?

23 A Well, to the extent that there are three utilities
24 operating in an area, I think this is a very reasonable
25 assumption. I think, again, going forward, as we see greater

1 incentives -- And, of course, that's what we're studying here
2 is the forward-looking, as we see greater incentives for cost
3 savings, this is a real opportunity that GTE Florida can avail
4 itself of.

5 MR. MELSON: I have got nothing further. And we would
6 move Exhibits 40 and 41.

7 MS. BARONE: Chairman Clark, before we do that, Staff
8 has one last question, if that's okay with you.

9 CHAIRMAN CLARK: Go ahead.

10 MS. BARONE: Thank you.

11 RE CROSS EXAMINATION

12 BY MS. BARONE:

13 Q Mr. Wood, regarding your Hatfield Model Unbundled
14 Network Element Summary that was identified as DJW-4, is it
15 your position that the unit costs listed in that exhibit are
16 also the proposed rates for these unbundled elements?

17 A Yes, they are. These costs are intended to be fully
18 inclusive and fully compensatory. So a rate set at this cost
19 will fully compensate GTE. So these are our rate proposals as
20 well.

21 MS. BARONE: Thank you.

22 CHAIRMAN CLARK: Okay. Exhibits.

23 MR. MELSON: 40 and 41.

24 CHAIRMAN CLARK: Without objection, 40 and 41 will be
25 admitted.

1 (Exhibit Nos. 40 and 41 received into evidence.)

2 MS. BARONE: Staff moves 42 through 45.

3 CHAIRMAN CLARK: Those exhibits will likewise be
4 admitted without objection.

5 (Exhibit Nos. 42, 43, 44 and 45 received into
6 evidence.)

7 MR. MELSON: May Mr. Wood be excused?

8 CHAIRMAN CLARK: Yes, Mr. Wood may be excused.

9 MR. MELSON: Thank you.

10 CHAIRMAN CLARK: Mr. Tye.

11 MR. TYE: Yes. Chairman Clark, we I believe have a
12 resolution to the problem with respect to Exhibits 32 and 33.

13 CHAIRMAN CLARK: Okay.

14 MR. TYE: Let me see if I can state correctly where we
15 are. Exhibit 32 was an update of something that was contained
16 in Exhibit 31. Yesterday Staff asked GTE to provide a red-line
17 version to indicate the differences between Exhibit 32 and what
18 was contained in Exhibit 31.

19 CHAIRMAN CLARK: Yes.

20 MR. TYE: And that was what was submitted this morning
21 is Exhibit 33. It occurs to us that we don't need both Exhibit
22 32 and 33 in the record. We would propose either to substitute
23 the red-line version for Exhibit 32 or to just withdraw, have
24 GTE withdraw Exhibit 32 and we'll talk about Exhibit 33 and
25 we've got a stipulation with respect to that, I believe.

1 CHAIRMAN CLARK: So Exhibit 32 will be withdrawn?

2 MR. TYE: Yes, ma'am.

3 CHAIRMAN CLARK: All right.

4 (Exhibit 32 withdrawn.)

5 MR. TYE: And with respect to Exhibit 33, AT&T will
6 not object to Exhibit 33 pursuant to the following procedure:
7 AT&T will review GTE's updated proposed contract. To the
8 extent that GTE's updated proposed contract includes provisions
9 that are not included in or are different from the contract
10 filed with GTE's response and received into evidence as Exhibit
11 31, AT&T may submit as a late-filed exhibit an affidavit
12 addressing or commenting on such provisions.

13 CHAIRMAN CLARK: Okay.

14 MR. TYE: And we would do that by close of business on
15 Wednesday, October 23rd. And we'd ask that that affidavit be
16 assigned a late-filed exhibit number.

17 CHAIRMAN CLARK: It will be Late-Filed Exhibit 42 and
18 it is -- Give me a title. Affidavit?

19 MR. TYE: Affidavit of AT&T commenting on GTE proposed
20 contract provisions.

21 CHAIRMAN CLARK: Commenting on --

22 MR. MELSON: Commissioner Clark, what was the number
23 again?

24 CHAIRMAN CLARK: Forty-six.

25 MR. MELSON: Thank you.

1 CHAIRMAN CLARK: Commenting on --

2 MR. TYE: Commenting on --

3 CHAIRMAN CLARK: GTE --

4 MR. TYE: GTE proposed contract provisions.

5 CHAIRMAN CLARK: Okay. That will be Late-Filed
6 Exhibit 46. And when did you say that would be provided?

7 MR. TYE: We will provide it by close of business
8 Wednesday, October 23rd, one week from today.

9 (Late-Filed Exhibit 46 marked for identification.)

10 MS. CASWELL: Chairman Clark, just for purposes of
11 comparing the original with the new red-line version, I would
12 like to point out that Exhibits C, D, E and F have not changed
13 from the original version and they weren't resubmitted in the
14 red-line because they contain confidential information about
15 cost and pricing data.

16 CHAIRMAN CLARK: Okay.

17 MR. TYE: Thank you, Chairman Clark.

18 CHAIRMAN CLARK: Thank you. We will take a break for
19 lunch and come back at 1:15.

20 (Luncheon recess.)

21 CHAIRMAN CLARK: Let's reconvene the hearing. I have
22 two things -- two things I wanted to cover. Just so the record
23 is clear, Exhibit 33 will be admitted in the record and 32 is
24 withdrawn.

25 (Exhibit No. 33 received into evidence.)

1 CHAIRMAN CLARK: Also, you'll notice Commissioner
2 Julia Johnson is not here. There is an emergency meeting of
3 State Commissioners in Washington which she is attending. So
4 she will not be with us for the rest of the hearing, but she
5 will read the transcripts in preparation for a vote on the
6 matter.

7 In addition, Commissioner Kiesling will be down here
8 in a minute, but then she has to leave for an appointment she
9 could not defer. She will be gone probably between 2:00 and
10 4:00 and then she will be back at that time.

11 So we will have -- We still have a quorum here and so
12 we're going to go forward.

13 And the next witness is Dr. Duncan. Okay.

14 MS. MURPHY: That's correct, Chairman Clark, and he
15 has not been sworn.

16 CHAIRMAN CLARK: Would you please stand and raise your
17 right hand.

18 GREGORY M. DUNCAN

19 was called as a witness on behalf of GTE Florida and, having
20 been duly sworn, testified as follows:

21 DIRECT EXAMINATION

22 BY MS. MURPHY:

23 Q Dr. Duncan, can you please give your name and address.

24 A My name is Gregory Michael Duncan. My address is
25 National Economic Research Associates, 555 South Flower Street,

1 Suite 4100, Los Angeles, California 90071.

2 Q Can you please state your occupation.

3 A I am an economist.

4 Q Who are you employed by?

5 A National Economic Research Associates.

6 Q Did you cause to be submitted Direct Testimony to
7 Docket No. 960847 of four pages?

8 A Yes, I did.

9 Q Was there an exhibit attached to that?

10 A Yes, there was.

11 Q Do you have any changes to that Direct Testimony?

12 A Yes. To the Direct Testimony, no.

13 Q Can you please tell us those changes?

14 A I want to change the exhibit.

15 CHAIRMAN CLARK: Let me interrupt you for just a
16 minute. Would you tell me what pieces of testimony I should
17 have in front of me? Are there four pieces of testimony?

18 MS. MURPHY: I believe there's only two. He submitted
19 Direct Testimony to both dockets. One is just basically
20 adopting the first one.

21 CHAIRMAN CLARK: Okay. I have that. Thank you very
22 much.

23 WITNESS DUNCAN: Yes, I would --

24 BY MS. MURPHY (Continuing):

25 Q Do you have any changes to the testimony? In your

1 Direct Testimony, are there any changes to the actual testimony
2 portion?

3 A Those are the four pages?

4 Q Those four pages.

5 A No, there's no changes to that.

6 Q Is there an exhibit attached to that testimony?

7 A Yes, there is.

8 Q Do you have any changes you would like to make to that
9 exhibit?

10 A Yes. I would like to replace that exhibit with
11 another exhibit, a paper dated September 13th, which I have
12 previously provided to MCI and AT&T counsel and to staff in my
13 deposition.

14 Q While this exhibit is being handed out, do you have
15 any other changes to either your Direct Testimony or the
16 exhibit?

17 A No, I do not.

18 Q If I were to ask you the same questions today under
19 oath, would your answers be the same?

20 A Yes, they would.

21 MS. MURPHY: Chairman Clark, I ask that his testimony
22 be inserted into the record as though read.

23 CHAIRMAN CLARK: Can we do both pieces of testimony?

24 MS. MURPHY: Certainly.

25 CHAIRMAN CLARK: Okay. The testimony of Dr. Duncan in

1 Docket 960847 and in Docket 960980 will be inserted in the
2 record as though read.

3 MS. MURPHY: GTE tenders Dr. Duncan for cross
4 examination. Oh, I'm sorry. I apologize.

5 Dr. Duncan --

6 CHAIRMAN CLARK: One other thing: Before he does his
7 summary, let's mark the exhibit attached to his Direct
8 Testimony in 960847 as Exhibit 47.

9 MS. MURPHY: Thank you.

10 CHAIRMAN CLARK: And it's the updated version dated
11 September 13th, 1996. Okay.

12 (Exhibit No. 47 marked for identification.)
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GTE FLORIDA INCORPORATED**DIRECT TESTIMONY OF GREGORY M. DUNCAN****DOCKET NO. 960980-TP**1
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25**Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.**

A. My name is Gregory Michael Duncan. My business address is 555 South Flower St., Suite 4100, Los Angeles, CA 90071.

Q. ARE YOU THE SAME GREGORY M. DUNCAN WHO FILED DIRECT TESTIMONY IN DOCKET 960847-TP, THE ARBITRATION BETWEEN GTE AND AT&T?

A. Yes. I submitted that Testimony on September 10, 1996.

Q. WHAT WAS THE PURPOSE OF THAT EARLIER-FILED TESTIMONY?

A. That Testimony provided an economic evaluation of Version 2.2 of the Hatfield Model, which AT&T relies upon to estimate the costs of incumbent local exchange carrier network elements.

Q. DOES MCI ALSO USE THE HATFIELD MODEL TO DERIVE PRICES FOR UNBUNDLED ELEMENTS?

A. Yes, it does. My evaluation of the Model and conclusions about its shortcomings will, of course, remain constant, regardless of the identity of the party supporting the Model. For this reason, it would be unduly repetitive to submit wholly new testimony in response to

1 this aspect of MCI's arbitration filing. I am therefore adopting my
2 Direct Testimony in the AT&T arbitration as my Direct Testimony in
3 this proceeding with MCI. This approach is consistent with the
4 Commission's consolidation of the AT&T and MCI arbitrations. Any
5 MCI-specific modifications of the Hatfield Model will be addressed in
6 my Rebuttal Testimony.

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8 **Q. DOES THAT CONCLUDE YOUR TESTIMONY?**

9 **A. Yes, it does.**

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GTE FLORIDA INCORPORATED**DIRECT TESTIMONY OF GREGORY M. DUNCAN****DOCKET NO. 960847-TP**1
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25**Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.**

A. My name is Gregory Michael Duncan. My business address is 555 South Flower St. Suite 4100, Los Angeles CA 90071.

Q. BY WHOM ARE YOU EMPLOYED AND WHAT IS YOUR POSITION?

A. I am employed by National Economic Research Associates as Vice President. Before that, I worked for GTE Laboratories, Inc. with the Department of Economics and Statistics where I was a Staff Scientist; a position reserved for a small number of independent researchers with responsibility for developing, proposing and conducting research as well as supervising the research of other economists and statisticians at GTE Labs.

Q. PLEASE DESCRIBE YOUR EDUCATION AND PROFESSIONAL BACKGROUND AND EXPERIENCE.

A. I received a M.A. in Statistics in 1974 and a Ph.D. in Economics in 1976, both from the University of California, Berkeley. Beginning in 1975, I taught in the Economics Department and Statistics Program at Northwestern University in Evanston, IL, where I was an Assistant Professor of Economics and of

1 Statistics. There, my teaching included demand and production
2 theory, econometrics and statistics. I also conducted research on
3 demand and production that appeared in refereed journals. I left
4 Northwestern in 1979 to join the faculty at Washington State
5 University. There, I served as Professor of Economics and of
6 Statistics. My research continued in demand, production theory
7 and applications as well as in other topics. During that period, I
8 was one of the first Associate Editors of the academic journal
9 *Econometric Theory*. I have published many refereed papers in
10 cost, production, and demand analysis, including the results of
11 the research that supported other testimony before a number of
12 regulatory commissions. During my career, I have spent a good
13 part of my time working on the analysis of cost data and have
14 been fortunate enough to be able to contribute much of it to the
15 academic literature on costs and production. My papers in this
16 area appear in the *International Economic Review*, *Proceedings of*
17 *the National Academy of Sciences*, *Econometrica*, and the *Journal*
18 *of Risk and Uncertainty*. In addition, under my supervision, a
19 number of Ph.D. students at Northwestern University,
20 Washington State University and Boston University wrote
21 dissertations that utilized modern cost and production methods.
22 The results of some of these dissertations have also been
23 published as contributions to the economics profession's
24 understanding of costs. My particular expertise includes the
25 formulation, specification, estimation and testing of cost models.

1 And, as a consequence, I was asked to teach and have taught
2 numerous graduate level courses that covered directly and
3 indirectly all aspects of cost analysis.

4
5
6 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?**

7 A. The purpose of my testimony is to provide an economic
8 evaluation of Version 2.2 of the Hatfield Model. This costing
9 model is relied upon by AT&T witness, Don J. Wood, in AT&T's
10 Petition for Arbitration against GTE Florida Incorporated. This
11 evaluation is attached to my testimony and is marked as Exhibit
12 No. GMD-1. In that evaluation, I describe how the Hatfield Model
13 is fundamentally flawed and why it does not provide reasonable
14 estimates of the costs of incumbent local exchange carrier
15 network elements. I also describe the shortcomings of the model
16 and conclude that, because of those shortcomings, the model
17 understates the cost of loop plant and local switching by about
18 ~~\$6.00~~ ^{\$9.00} per line per month. The Hatfield Model bases prices on
19 costs that no real-world provider could hope to meet, and as
20 such, is anti-competitive and stifles rather than promotes
21 facilities-based competition, which is the most effective type of
22 competition. In addition, because the Hatfield Model requires
23 LECs to sell inputs at non-compensatory rates, it has the
24 deleterious effect of forcing whatever customers that may remain
25 with the LEC to subsidize the below-cost input prices and severely

1 handicap firms that represent a substantial proportion of the
2 telecommunications industry.

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

5 **A. Yes, it does.**

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1 BY MS. MURPHY (Continuing):

2 Q I apologize, Dr. Duncan. Do you have a summary of
3 your testimony?

4 A Yes, I do. I'm here today to explain why the Hatfield
5 Model can't be used as a guide to TSLRICs. I want to make
6 clear that my criticisms are based on Version 2.2.2, that is,
7 the last, most recent release.

8 I basically have four large points. The first point
9 is that the model has not been externally validated. And by
10 that I mean that the model has not been used to produce results
11 in a real world scenario to see how well it approximates
12 things. I would point out that many companies are asked to
13 review software to do business planning and the first thing
14 that's asked is can this business planning model reproduce
15 something where we know the answer. And if the answer is no,
16 you just don't go any further. So the model has not been
17 externally validated.

18 The second thing is that when it is compared to other
19 models, such as BCM2 or the CPM, the Cost Proxy Model, the
20 numbers are quite a bit different. So, for example, BCM2 gives
21 numbers of about \$25.45 or 44 cents in Florida under the
22 default, that if you just use what they give you, you get \$25,
23 which is more than double what Hatfield gives. And if you use
24 GTE data you get about 33.61. So, if you compare it with other
25 models of a type, you get numbers that are quite, quite

1 different.

2 The model is very complicated. It has millions of
3 equations, millions of data points. And the question is how do
4 you go about evaluating something like that if you can't
5 externally validate it. So, what we tried to do is we tried to
6 look at three things. First, does it satisfy internal validity
7 checks. For example, first degree homogeneity. First degree
8 homogeneity isn't as difficult as it seems. Let me use an
9 example. If you go to the store and you buy a bunch of
10 groceries at whatever prices each one of those things were, and
11 on the way out for some reason all of the prices go up 10% and
12 you get up to the front and somebody says how much is that bag
13 of groceries going to cost you now relative to what it cost
14 before, it's going to be 10% more because all of the prices
15 went up 10%. That's all that homogeneity says. And in testing
16 for it it's a little like picking up a calculator, pushing $2 +$
17 $2 = 4$, not because you're interested in it, just because that's
18 what you do when you test out a calculator, if it comes out
19 5.2, you say something is wrong with this calculator and you
20 look for another one. So that's one of the internal validity
21 checks we look for.

22 The derivative property is a somewhat more complicated
23 property, but it's something that a cost function should
24 satisfy. It doesn't satisfy that. And that's Version 2.2.2
25 doesn't satisfy that; it isn't the earlier version that doesn't

1 satisfy that.

2 The input values are not GTE input values. Their
3 sources are judgment often; they're not related to GTE Florida
4 or GTE in any other state. They use simply the wrong inputs.
5 And I'll mention a few things: The capital, the switch costs
6 are too low. The shared percents seem too high. The drop wire
7 investment is too low, things like that. So, the inputs don't
8 seem to be correct.

9 And, finally, the model is built on faulty assumptions
10 from the beginning. It's not dynamic. It doesn't take into
11 account the kinds of costs that a firm that's going to be in a
12 competitive industry would face. It doesn't attempt to try and
13 do that. It does not and cannot account for growth. And so
14 the underlying structure is faulty as well.

15 So it hasn't been externally validated, and then on
16 these internal criteria and other criteria, it seems to be
17 flawed as well. So, I simply can't support it.

18 Finally, in terms of its vaunted openness, I have not
19 found it open at all. Many of the cells in fact are locked.
20 And when you lock the cells, you turn off the auditing
21 procedure. The auditing procedure allows you to trace through
22 how an input value is used throughout the different spread-
23 sheets. Now it is true that if you know where you're going to
24 end up in one of these million or so equations, sets of
25 equations, somebody could say, well, you could track this

1 backwards; if you know what the result is, you might be able to
2 track it backwards and look and find where it was used, but you
3 can't go from the front part and figure out where it's going to
4 be used next. You would literally have to check through each
5 one of those million cells to find it. And even then you can't
6 find it all because sometimes they use what are called ranges.
7 So you want to look at Cell 14; if Cell 14 is used in a range
8 statement that goes from C-1 to C-15 and Cell 14 is in the
9 middle there, you're never going to pick up where it was used.
10 Is it not user friendly. Is it very difficult to figure out
11 what's going on. The equations are not documented. The lines
12 of code are not documented. It's a very difficult thing to
13 use. And with that I'll close.

14 MS. MURPHY: GTE tenders Dr. Duncan for cross
15 examination.

16 CHAIRMAN CLARK: Mr. Melson.

17 CROSS EXAMINATION

18 BY MR. MELSON:

19 Q Good afternoon, Dr. Duncan. I'm Rick Melson,
20 representing MCI.

21 A Good afternoon, Mr. Melson.

22 Q You've only been with NERA since April of 1996;
23 correct?

24 A That's correct.

25 Q And prior to that you were with GTE Labs for about

1 nine years?

2 A That's correct.

3 Q And since you've have been at NERA, would you estimate
4 that 90% or more of your work has been done for GTE?

5 A That would be a reasonable estimate.

6 Q You have not reviewed any of the cost studies filed by
7 GTE in this proceeding; is that correct?

8 A That's correct.

9 Q So you haven't had the responsibility for verifying
10 any of Mr. Trimble's numbers or the validity of any of his
11 models?

12 A That's correct.

13 Q In your Direct Testimony at page 2, you state that
14 your particular expertise includes the formulation,
15 specification, estimation and testing of cost models; is that
16 correct?

17 A That's correct.

18 Q Now do you recall previously testifying before this
19 Commission in March of this year in the unbundling proceeding
20 for GTE?

21 A I remember that I was here. I don't remember exactly
22 what we were talking about.

23 Q Would you agree with me in that docket that when you
24 described your background and experience, you didn't even
25 mention cost models?

1 A I frankly don't remember.

2 Q In fact, your role at GTE Labs was to direct academic
3 quality research and econometrics game theory and the empirical
4 and policy oriented aspects of industrial organization; is that
5 a fair summary of what you did at GTE Labs?

6 A Oh, yes, and that certainly includes cost analysis.

7 Q Let's turn if we could just for a minute to
8 Exhibit 47.

9 A yes.

10 Q At page 17 of that you say that the Hatfield Model
11 underestimates the cost of capital; do you recall that? Sort
12 of big black letters at the bottom of the page.

13 A Yes.

14 Q And I believe you told me during your deposition that
15 an appropriate cost of capital would be about three times
16 higher than what was used in Hatfield or in the 30% plus range;
17 is that correct?

18 A I could imagine using one that much higher, yes.

19 MR. MELSON: That's all I've got. Thank you,
20 Dr. Duncan.

21 CHAIRMAN CLARK: Mr. Lemmer.

22 MR. LEMMER: AT&T has no questions.

23 CHAIRMAN CLARK: Staff.

24 MS. BARONE: Thank you.

25 CROSS EXAMINATION

1 BY MS. BARONE:

2 Q Dr. Duncan, Staff is bringing you a copy of your
3 deposition transcript dated 10/1/96.

4 Sir, prior to today did you have an opportunity to
5 take a look at your deposition transcript?

6 A Actually just very briefly this morning.

7 Q Based on your review, do you have any corrections or
8 changes to make to your deposition transcript?

9 A Based on that quick look, no.

10 MS. BARONE: Madam Chairman, Staff requests that GMD-2
11 be marked for identification at this time.

12 COMMISSIONER DEASON: Let the record reflect that
13 Madam Chairman has stepped out for just a moment and I will
14 assign Exhibit No. 48 to that document.

15 MS. BARONE: Thank you, sir.

16 (Exhibit No. 48 marked for identification.)

17 MS. BARONE: And with that, Staff does not have
18 any --

19 COMMISSIONER KIESLING: Excuse me. Hello. I couldn't
20 make my mike work. Does that include an errata sheet if he
21 wants to file one, since he hasn't had a chance to give it a
22 thorough review.

23 MS. BARONE: Certainly. If you would like to provide
24 an errata sheet, you may do so after today.

25 WITNESS DUNCAN: Okay. Thank you.

1 MS. BARONE: And the record will reflect an errata
2 sheet if you file one.

3 WITNESS DUNCAN: Thank you.

4 MS. BARONE: And with that, Dr. Duncan, Staff does not
5 have any further questions.

6 COMMISSIONER DEASON: Redirect.

7 MS. MURPHY: I just have two quick questions on
8 redirect.

9 REDIRECT EXAMINATION

10 BY MS. MURPHY:

11 Q Dr. Duncan, if you could turn to page, I believe it's
12 page 3 of your testimony, line 18, and that's on Docket No.
13 960980.

14 A Yes.

15 Q Line 18, I'm wondering if you had a change. I asked
16 you previously if you had any changes to your Direct Testimony
17 that had been submitted. And my question for you is this:
18 Where it says "\$6 per line per month," did you want to make a
19 change to that?

20 A I'm sorry, I think you have the old exhibit.

21 Q I do.

22 A I'm sorry. I'm sorry. I have now succeeded in
23 confusing myself. So I need to ask a question.

24 CHAIRMAN CLARK: Ms. Murphy, we'll go off the record
25 for a minute and why don't you go over and get him on the right

1 piece of testimony.

2 (Brief pause.)

3 BY MS. MURPHY (Continuing):

4 Q I apologize. Dr. Duncan, did you have any changes you
5 want to make to that line?

6 A Yes, I do. On line 18, there is a term that says "\$6
7 per month per line" and it should read \$9 per month per line,"
8 "per line per month."

9 Q Is that change consistent with the attached exhibit?

10 A Yes, it is.

11 Q Is it also consistent with the exhibit that was
12 originally attached to that Direct Testimony?

13 A I believe the original testimony had a 6 in there as
14 well, which I corrected at the deposition before giving the
15 other one. This was a typo.

16 Q Thank you. My next question is this: Can you
17 describe briefly your background with cost models?

18 A My Ph.D. program involved a lot of training in what
19 was then a modern cost model theory. My first academic papers
20 were primarily in cost, modeling costs, model specification
21 cost estimation. I have a number of academic papers starting
22 in the late '70's, early '80's and going to roughly 1990 on
23 cost models and how to estimate them, how to formulate them.
24 I've taught many courses on explicitly cost and production
25 analysis and a number of my students, my Ph.D. students have

1 written dissertations on cost and production analysis and their
2 dissertations quite often have been published as well.

3 Q Thank you. Can you also tell me in your Direct
4 Testimony, the criticisms you have of the Hatfield Model, are
5 they based on Version 2.2 Release 2?

6 A Yes, they are.

7 MS. MURPHY: Thank you. No further questions. And I
8 would like to move the admission of Exhibit 47.

9 CHAIRMAN CLARK: Exhibit 47 will be admitted in the
10 record without objection.

11 (Exhibit No. 47 received into evidence.)

12 MS. BARONE: Staff moves 48.

13 CHAIRMAN CLARK: Exhibit 48 will be admitted in the
14 record without objection.

15 (Exhibit No. 48 received into evidence.)

16 CHAIRMAN CLARK: Thank you, Dr. Duncan.

17 Who's next?

18 MR. FUHR: Steel and Trimble.

19 CHAIRMAN CLARK: Steele and Trimble?

20 MR. FUHR: Yes, ma'am.

21 We're ready to proceed.

22 DIRECT EXAMINATION

23 BY MR. FUHR:

24 Q Mr. Trimble, would you state your --

25 CHAIRMAN CLARK: Let me ask a question. Have they

1 been sworn in?

2 MR. FUHR: No, they have not, I don't believe.

3 WITNESS TRIMBLE: No.

4 CHAIRMAN CLARK: Would you both please stand and raise
5 your right hand.

6 DENNIS B. TRIMBLE

7 and

8 BERT I. STEELE

9 were called as witnesses on behalf of GTE Florida and,
10 having been duly sworn, testified as follows:

11 CONTINUED DIRECT EXAMINATION

12 BY MR. FUHR:

13 Q Mr. Trimble, would you state your name for the record?

14 A (By Witness Trimble) My name is Dennis B. Trimble.

15 Q What is your business address?

16 A My business address is 600 Hidden Ridge, Irving,
17 Texas.

18 Q By whom are you employed and what is your position
19 with that employer?

20 A I am employed with GTE Telephone Operations as
21 Assistant Vice President, Marketing Services.

22 Q Okay. Mr. Trimble, have you caused to be filed under
23 your name Direct Testimony in Docket No. 960847?

24 A Yes.

25 Q And did you have attached to that Direct Testimony

1 four exhibits, DBT-1 through DBT-4?

2 A That is correct.

3 Q Did you also cause to have filed under your name
4 Direct Testimony in Docket No. 960980?

5 A Yes.

6 Q And were there any exhibits attached to that?

7 A No, I do not believe there were.

8 Q Okay. Mr. Trimble, are there any changes or
9 modifications to your Direct Testimony or the exhibits attached
10 to that Direct Testimony?

11 A Yes, there are.

12 Q Would you identify what those changes or modifications
13 are?

14 A Yes. There are two changes that are basically typos.
15 The first one is on page 26, on line 1, and the statement is
16 "as can be seen from Exhibit No. DBT-3." That should be
17 "DBT-4."

18 On page 29, there are four word changes. The first
19 one is on line 3, where it says "intrastates switched access."
20 It should state "interstate switched access."

21 And similar along that line, on line 7, where it says
22 "for intrastate switched access," that should be "for
23 interstate switched access."

24 Likewise on line 9, the sentence begins "intrastate
25 switched access." It should be "interstate switched access."

1 And consistent with that, on line 14, where it states
2 "Commission as appropriate," it should say "FCC as
3 appropriate."

4 The same changes need to be made on page 31. On line
5 11, it states, "GTE's intrastate switched access." That should
6 state "GTE's interstate switched access."

7 And, similar, on line 13, "Would intrastate switched
8 access" should be "Would interstate switched access."

9 In terms of the exhibits, we have a change in Exhibit
10 DBT-3, it's on page 2 of 4. On item No. 7 where it states
11 "service provider number portability" and just below that it
12 says -- "simultaneous call capability," on October 2nd we
13 provided an edit to those numbers or at least to the
14 simultaneous call numbers and those were filed on October 2nd.
15 So, for simultaneous call capability on that line, it should
16 say "simultaneous call capability -- initial." The TELRIC for
17 that should be \$1.72. The contract rate in the column there,
18 which is the rates we proposed should be \$1.90, which replaces
19 the 5.10 that's there right now.

20 We need to add another line just below that, which
21 states "simultaneous call capability -- additional." And the
22 TELRIC column for that should be \$2.78. And we jump over to
23 the contract rate column, that should be \$3.05.

24 There is one additional minor change, which happens to
25 be in DBT-4, actually page 3 of 3. There are two tables on

1 that page. And you will notice that they seem to both have the
2 same title. The second page -- The second table, which has a
3 column in it, the second column in it says "market share 10%,"
4 we need to erase the title that's currently there and
5 substitute for that the title "ALEC margin opportunities."

6 That is all the changes.

7 MR. MELSON: Chairman Clark, might I inquire just a
8 moment? My understanding is that as filed, Exhibits DBT-1
9 through 4 or, excuse me, 2 through 4 were confidential. I
10 believe that GTE has now withdrawn that claim of
11 confidentiality and I'd just like to make sure my understanding
12 is correct before we go too much further.

13 MR. FUHR: That's correct.

14 CHAIRMAN CLARK: Okay. So no part of the exhibits
15 attached to his direct testimony, which are DBT-1 through 4, is
16 confidential?

17 MR. FUHR: That's correct.

18 CHAIRMAN CLARK: Okay.

19 MR. MELSON: And would the unredacted versions of
20 those be found in that black binder that you handed out?

21 MR. GILLMAN: The same exact exhibit would not be.
22 You should all have the confidential highlighted portions that
23 we can declassify now as confidential.

24 MR. MELSON: Commissioner Clark, my concern is I've
25 got them. I don't know if the Commission has them.

1 CHAIRMAN CLARK: Well, Mr. Melson, unless you're going
2 to ask -- If you're going to ask questions on them, then we
3 probably need them. If you're not, they will be part of the
4 record.

5 MR. MELSON: At this point I may. I frankly don't
6 know.

7 CHAIRMAN CLARK: Okay.

8 MR. MELSON: I may have questions on them. So, maybe
9 at an appropriate time GTE could get some copies of those made.

10 CHAIRMAN CLARK: All right. Why don't we continue on.
11 I think it's going to take us a while to get the testimony in
12 and, meanwhile, if you would be looking at that, Mr. Gillman, I
13 would appreciate it.

14 MR. GILLMAN: Yes, ma'am.

15 MR. FUHR: Thank you.

16 BY MR. FUHR (Continuing):

17 Q Mr. Trimble, did you also cause to be filed Rebuttal
18 Testimony of 21 pages in Docket No. 960847 ?

19 A (By Witness Trimble) Yes, I did.

20 Q And did that rebuttal testimony have attached to it
21 Exhibits DBT-5 through DBT-8?

22 A Yes, it did.

23 Q And, likewise, did you file Rebuttal Testimony in
24 Docket No. 960980 of three pages?

25 A Yes, I did.

1 Q And is it correct that that Rebuttal Testimony there
2 did not have any exhibits attached to it?

3 A That is correct.

4 Q Mr. Trimble, are there any corrections or
5 modifications that you need to make to that Rebuttal Testimony
6 or the exhibits attached thereto?

7 A No.

8 Q Mr. Trimble, if I ask the questions of you that are
9 contained in the Direct Testimony and the Rebuttal Testimony
10 that we have just referenced and I ask those questions of you
11 today, would your answers be the same today?

12 A Yes, they would, except for very small immaterial
13 factors that were submitted in my late-filed deposition
14 exhibits.

15 Q Do any of those immaterial changes that you just
16 reference affect in any way the prices that you are
17 recommending?

18 A No, they do not.

19 MR. FUHR: Madam Chairman, I would ask that the
20 testimony, the Direct and Rebuttal Testimony that we've just
21 referenced, be inserted into the record as though read.

22 CHAIRMAN CLARK: That testimony will be inserted into
23 the record as though read.

24 MR. FUHR: I think when we do our summary, Mr. Trimble
25 is going to do the summary for the team. So I thought I would

1 just go to Mr. Steele at this point, go through the same basic
2 background, if that's an appropriate way to proceed?

3 CHAIRMAN CLARK: Yeah. Let's mark the exhibits,
4 though. DBT-1 through 4, attached to the Direct Testimony will
5 be labeled as Exhibit 49 and DBT-5 through 8 attached to the
6 Rebuttal Testimony will be labeled as Exhibit 50.

7 MR. FUHR: Thank you very much.

8 (Exhibit Nos. 49 and 50 marked for identification.)
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GTE FLORIDA INCORPORATED**DIRECT TESTIMONY OF DENNIS B. TRIMBLE****DOCKET NO. 960847-TP**1
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Q. PLEASE STATE YOUR NAME, BUSINESS ADDRESS, AND TITLE.

A. My name is Dennis B. Trimble. My business address is 600 Hidden Ridge Drive, Irving, Texas, 75015. I am employed by GTE Telephone Operations as Assistant Vice President - Marketing Services (Acting) and am representing GTE or "the Company" in this arbitration proceeding with AT&T.

Q. WILL YOU PLEASE STATE YOUR EDUCATIONAL BACKGROUND AND WORK EXPERIENCE?

A. I received a B.A. in Business in 1970 and an M.B.A. in 1973, both from Washington State University. In 1972, I became an Assistant Professor at the University of Idaho, where I taught undergraduate courses in statistics, operations research and decision theory. From 1973 through 1976, I completed course work towards a Ph.D. degree in Business at the University of Washington, majoring in quantitative methods with minors in computer science, research methods, and economics. I began my career with GTE in 1976 as an Administrator - Pricing Research with General Telephone Company of the Northwest ("GTENW"). Through 1985, I held various jobs with GTENW and GTE Service Corporation, almost all related to demand analysis, market

1 research, and/or strategic planning. In 1985, I was named
2 Director - Market Planning for GTE Florida, Incorporated ("GTEFL")
3 and in 1987, I became GTEFL's Director - Network Services
4 Management. During most of 1988 and early 1989, I was also
5 Acting Vice President - Marketing for GTEFL. From 1989 through
6 most of 1994, I was employed by GTE Telephone Operations as
7 Director - Demand Analysis and Forecasting. In October of 1994,
8 I became Director - Pricing and Tariffs for GTE Telephone
9 Operations and assumed the additional responsibilities of the
10 Assistant Vice President - Marketing Services position in August,
11 1995.

12

13 **Q. HAVE YOU PREVIOUSLY TESTIFIED ON BEHALF OF GTE?**

14 **A.** Yes. I have presented testimony on behalf of GTE before the
15 California Public Utilities Commission, the Florida Public Service
16 Commission and the Hawaii Public Utilities Commission.

17

18 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THE DOCKET?**

19 **A.** In response to AT&T's request for arbitration filed with this
20 Commission, I will be sponsoring GTE's cost studies for:

21

22 (1) unbundled network elements and associated
23 ordering/provisioning non-recurring charges ("NRC"s),

24

25 (2) interconnection elements,

1 (3) collocation elements, and

2

3 (4) service provider number portability ("SPNP") [SPNP is also
4 know in the industry as interim number portability ("INP").].

5 I will also address GTE's proposed pricing for each
6 category of elements. The economic rationale supporting
7 the pricing policies employed by GTE in the development of
8 its proposed rates for unbundled network elements is the
9 subject of the Economic Presentation in this proceeding.

10

11 **Q. PLEASE DESCRIBE THE MAJOR UNBUNDLED ELEMENTS GTE**
12 **PROPOSES AND HOW THEY CAN BE USEFULLY COMBINED**
13 **WITH THE ALTERNATIVE LOCAL EXCHANGE CARRIERS**
14 **("ALEC'S") SELF-PROVISIONED NETWORKS AND SERVICES TO**
15 **DELIVER COMPETITIVE LOCAL EXCHANGE SERVICE.**

16 **A. GTE's major proposed unbundled services are:**

17

18 ● Unbundled Loops. The unbundled loop provides a
19 voice-grade path between an end user and a GTE wire
20 center. An ALEC may obtain this loop from GTE and
21 connect it to a cross connect available at the end office
22 through a collocation arrangement. The ALEC could
23 self-provision the transport facilities from GTE's end office
24 to the ALEC's own switching center. In such an
25 arrangement the ALEC would provide, through its own

1 switch, all related switching services such as local usage,
2 custom calling services, switched access service (both
3 originating and terminating), and toll services. Today, most
4 of these are high-margin services which provide GTE with
5 significant contributions (revenues minus costs) to cover its
6 common costs and overheads, thus enabling GTE to
7 support the level of investment infrastructure necessary to
8 operate as a carrier of last resort ("COLR") and achieve the
9 Commission's public policy objectives (e.g., universal
10 service).

11
12 GTE is also offering loop conditioning services for
13 unbundled loops that assure that desired loops have the
14 technical capability to handle enhanced end user services
15 (e.g., ISDN, switch data).

- 16
- 17 • Unbundled Port. The unbundled port provides access to
18 switching services from a GTE switch to be used with an
19 ALEC-provided loop. This element would apply in areas
20 where ALECs have loop facilities but do not have a local
21 switching center in service. In this situation, the ALEC will
22 cross connect its loop with GTE's switch through a
23 collocation arrangement. Through the port, the ALEC can
24 obtain access to both the local switching capability of
25 GTE's switch (e.g., local calling, switch features) and the

1 capability to route calls from the trunk side of the switch
2 (e.g., switched access, toll service, E-911 service,
3 directory service, etc.). The functionality of the switch
4 (e.g., local calling, switch features) will be purchased from
5 GTE at its resale rates.

6
7 • Network Access Cross Connection ("NACC"). The NACCs
8 are used to facilitate the physical delivery of a loop from
9 GTE's main distribution frame to the ALEC's collocated
10 facilities. GTE has elected to combine the NACC with the
11 local cross connect facility (since they are always used
12 together) and refer to this joint facility as a network access
13 cross connection [NACC is also referred to as Expanded
14 Interconnection Service Cross Connect ("EISCC").].

15
16 • SS7 Interconnection. SS7 interconnection allows an ALEC
17 to connect to GTE's SS7 network at a Signal Transfer Point
18 ("STP"). This connection enables ALECs to exchange SS7
19 messages without providing the underlying SS7 network.
20 It also provides access to database services (e.g.,
21 Database 800 Carrier Selection Service and Line
22 Information Database ("LIDB")). This interconnection will
23 also support efficient call setup and delivery of SmartCall™
24 services without first connecting to a GTE switch. Because
25 there is such a vast array of possible services provided

1 with SS7 interconnection, the Company proposes that
2 interconnection arrangements be provided subject to
3 negotiated contracts. With negotiated contracts,
4 agreements can be customized to meet the specific SS7
5 requirements of each ALEC. These contracts would
6 reference the signal links and STP ports currently tariffed
7 in the GTOC Tariff FCC No. 1.

8

9

COST STUDIES

10

A. UNBUNDLED NETWORK ELEMENTS

11

12 **Q. WHAT COSTING PRINCIPLES DID GTE EMPLOY IN DEVELOPING**
13 **ITS TOTAL ELEMENT LONG-RUN INCREMENTAL COST ("TELRIC")**
14 **STUDIES?**

15 **A.** Exhibit No. DBT-1 to this testimony contains a complete
16 description of the costing principles used by GTE to develop its
17 TELRIC estimates for unbundled network services (Tab 1 of
18 "GTE's Cost Submission" in this proceeding also contains the
19 discussion on GTE's costing methods and models.).

20

21 **Q. WHAT COST STUDIES HAS GTE FILED IN THIS PROCEEDING?**

22 **A.** GTE's Cost Study Submission contains TELRIC estimates for
23 certain "network elements" as well as Total Service Long-Run
24 Incremental Cost ("TSLRIC") estimates for select bundled
25 "services." The Company has provided TELRIC estimates for the

1 following elements:

- 2 - Network Interface Device ("NID"): Basic and 12X
- 3 - Loops: 2-wire and 4-wire
- 4 - Local Switching
- 5 - Ports: 2-wire analog and DS-1
- 6 - End Office Switching: Originating and Terminating
- 7 - Tandem Switching
- 8 - SS7 Signal Links: 56kb and DS-1
- 9 - SS7 Signal Transfer Point ports
- 10 - Transport: Common and Dedicated

11

12 Collocation element costs studies were also provided for:

- 13 - Network Access Cross Connection: DS-0, DS-1, and DS-3
- 14 levels
- 15 - Physical Engineering Fee
- 16 - Building Modification Charges
- 17 - Partitioned Space Rental
- 18 - DC Power
- 19 - Cable Space Charges.

20

21

22 Service Provider Number Portability cost studies:

- 23 - Remote Call Forwarding per number ported
- 24 - Simultaneous Call paths

25

1 In addition, TSLRIC studies were performed and submitted for
2 other services that the Company offers (e.g., basic local service,
3 vertical services, toll, and switched access). These studies were
4 a component to the derivation of the Company's total "forward-
5 looking" costs for all its services. This total cost estimate helped
6 the Company to estimate its "forward-looking" common costs.

7

8 GTE's Cost Study Submission also includes its "Avoided Cost
9 Study" analysis which is a primary component of its
10 recommended resale rates. This study and the resulting
11 recommended price levels for resold services is the topic of GTE's
12 Resale/Avoided Cost Presentation.

13

14 **Q. AT&T ASSERTS THAT GTE'S "COMMON" COSTS ARE EITHER**
15 **NONEXISTENT OR DE MINIMIS. DO YOU AGREE WITH AT&T'S**
16 **ASSERTION?**

17 **A.** No. As shown in Exhibit No. DBT-2, the annual common costs
18 for GTE's operations in this state exceed **\$ **million,
19 which translates to about ** %** of GTE's total revenues.
20 AT&T's proposal does not allow for recovery of these costs.

21

22

B. NON-RECURRING CHARGES

23

24 **Q. HAS GTE IDENTIFIED THE COST OF SERVICE ORDERING AND**
25 **SERVICE CONNECTION ACTIVITIES REQUIRED IN CONNECTION**

1 **WITH THE OFFERING OF WHOLESALE SERVICES?**

2 A. Yes. GTE has included in its Cost Submission package (Tab 9) a
3 study for wholesale service ordering and service connection
4 activities ("the NRC study").

5

6 **Q. PLEASE DESCRIBE THE PURPOSE OF GTE'S NRC STUDY.**

7 A. The purpose of the NRC study was to determine the non-recurring
8 costs of service ordering and service connection activities
9 required to provide wholesale services using a newly-developed
10 wholesale service provisioning process. The study was designed
11 to determine these costs for four wholesale service provisioning
12 functions: unbundled loop, unbundled port, resale, and service
13 provider number portability.

14

15 Because the wholesale provisioning process has not yet been
16 established, the time and motion studies typically used to collect
17 actual study data were not available. Instead, the study was
18 conducted based on a planning model developed by the
19 GTE Telephone Operations Open Market Transition ("OMT") Team.

20

21 **Q. PLEASE DESCRIBE THE OMT TEAM'S PLANNING EFFORTS.**

22 A. A variety of subteams comprised the OMT team. The Business
23 Process and Systems Support subteam was charged with
24 designing the processes needed for GTE to offer unbundled
25 network elements and resale services, both on an interim and a

1 long-term basis. These processes included ordering, provisioning,
2 installation, maintenance, repair, and billing.

3
4 **Q. WHY ARE THESE PROCESSES DIFFERENT FROM GTE'S**
5 **EXISTING RETAIL PROCESSES?**

6 A. Fundamentally, these processes differ from GTE's existing retail
7 processes because GTE is serving a different customer set --
8 ALECs rather than individual end user customers. The presence
9 of an intermediary ALEC changes systems and procedures
10 designed to serve end users.

11
12 First, GTE is required to obtain and maintain a different and new
13 set of account level data with respect to its customer, the ALEC,
14 versus its end user customer, e.g., record of a valid Certificate of
15 Public Convenience and Necessity ("CPCN"), billing arrangements,
16 contact persons, etc.

17
18 Second, processes and procedures for coordinating end user
19 customer information with the ALEC must be established to meet
20 GTE's requirements necessary to enable installation, repair and
21 other aspects of service.

22
23 Third, GTE must maintain multiple accounts per ALEC end user
24 customer, rather than the single account maintained per GTE
25 customer. This will include the ALEC account, an end user

1 account for peripheral processes which cannot be handed over
2 completely to the ALEC (e.g., E-911 data entry, maintenance, and
3 repair), and a residual account for any retained GTE services (e.g.,
4 casual intraLATA and interLATA billing, directory advertising,
5 voicemail, etc.). GTE must also modify its billing procedures to
6 render individual account level detail as well as a summary bill to
7 the ALEC.

8
9 Finally, GTE must train all of its personnel in the new procedures
10 and ensure that the systems will function smoothly in a resale as
11 well as a retail environment.

12

13

14 **Q. HOW DID THE BUSINESS PROCESS AND SYSTEMS SUPPORT**
15 **SUBTEAM GO ABOUT DESIGNING THESE NEW PROCESSES?**

16 A. The subteam was composed of 35 to 40 individuals from the
17 functions and departments within GTE which would be affected
18 by the new processes. These included subject matter experts
19 from each of GTE's three lines of business--consumer, business
20 and carrier--as well as network operations (engineered and
21 non-engineered provisioning, installation, dispatch, and repair),
22 database administration, billing and training functions. These
23 individuals developed scenarios for the ordering, repair,
24 maintenance and billing functions which would be needed in the
25 resale environment, determined the need for additional or modified

1 systems and functions, and developed and analyzed process
2 flows for all scenarios.

3

4 The subteam determined which workgroups would be impacted
5 by the new processes, and developed estimated work times for
6 each function identified in the process flows. Based on
7 forecasted volumes of service orders, the subteam then allocated
8 these forecasted volumes to the different workgroups to
9 essentially develop a model worktime analysis of the functions
10 and systems involved as part of the newly designed processes.

11

12 **Q. WHAT FUNDAMENTAL INFORMATION WAS USED FROM THE**
13 **SUBTEAM'S ANALYSIS IN THE DEVELOPMENT OF THE NRC**
14 **STUDY?**

15 **A.** Two fundamental sets of information were taken from the
16 subteam's analysis. First, the analysis defined all of the work
17 activities necessary for GTE to respond to all four types of Local
18 Service Requests ("LSR"s) examined in the NRC study: new
19 service, account change - GTE to ALEC, account change - ALEC
20 to ALEC, and service change. Work times developed by the
21 subteam were used in the NRC study to determine costs for all
22 relevant work activities.

23

24 Second, because not all LSRs require all of the possible work
25 activities, the analysis established assumptions regarding the

1 frequency of the need for each work activity. For example, the
2 summary bill master order activity was assumed to be required on
3 5% of all LSRs.

4

5 These data from the subteam's analysis were used in estimating
6 the costs of ordering and provisioning in the prospective
7 wholesale service environment. In addition, planning assumptions
8 underlying the subteam's analysis were carried forward through
9 the NRC study.

10

11 **Q. HOW WAS THE NRC STUDY PREPARED?**

12 A. Service ordering and service connection activities were studied
13 separately for each of the four wholesale provisioning functions
14 I identified earlier; for the unbundled loop and unbundled port
15 functions, four different types of LSRs were studied separately.
16 For each type of LSR, work times for all relevant work activities
17 were priced out at loaded labor rates, and activity costs were
18 determined based on the frequency assumptions for each work
19 activity. Total costs for the LSRs were calculated by summing
20 the activity costs.

21

22 **Q. BASED ON GTE'S ANALYSIS OF NON-RECURRING COSTS,**
23 **WHAT WHOLESALE NRCS ARE YOU PROPOSING?**

24 A. In general, charges have been designed to recover separately the
25 costs of service ordering and installation activities, recognizing to

1 the extent possible any like functions required for various types
2 of LSR activity. By structuring the NRCs in this way, common
3 charges are established that apply to all types of ordering
4 activities, simplifying administrative processes for both the
5 Company and the ALECs.

6
7 The proposed NRC structure reflects the remaining differences in
8 anticipated costs for various types of ordering activities, and
9 enables a reasonable relationship between the service connection
10 charges and the incurred costs of associated work functions on
11 an order-by-order basis.

12
13 Service ordering and installation charges are proposed both for
14 unbundled services and resale services.

15
16 **Q. HOW WERE THE SERVICE ORDERING CHARGES FOR**
17 **UNBUNDLED SERVICES DESIGNED?**

18 A. These NRCs were designed to recover the costs of work functions
19 listed in the NRC study under the heading "National Open Market
20 Center" on a per-order basis. The Initial Service Order charge is
21 based on the costs for the install, summary bill master,
22 disconnect and all other ordering functions, plus system
23 processing.

24
25

1 Separate charges are proposed for a Transfer of Service and for
2 a Customer Service Record Search. The Transfer of Service
3 charge will be administered as required by the type of LSR; a
4 transfer of service charge is required on any change in service
5 from GTE to an ALEC where GTE must continue end user billing
6 on the account, for CPE or directory advertising, for example.

7
8 Customer service record research is performed at the request of
9 the ALEC to obtain a summary of the services subscribed to by
10 the end user. The Customer Service Record Research charge will
11 be administered whenever account information is requested.

12
13 The Subsequent Service Order charge will be applied on LSRs
14 requesting a service change on an existing account, and is
15 designed to recover the costs of work functions listed in the NRC
16 study under the heading "National Open Market Center" on a per-
17 order basis for all service change requests.

18

19 **Q. HOW WERE THE INSTALLATION CHARGES FOR UNBUNDLED**
20 **SERVICES DESIGNED?**

21 A. Installation NRCs were designed to recover the costs of work
22 functions listed in the NRC study under the headings "SSCC",
23 "FAC", "DAC" and "CZT". A separate Loop Facility Charge for
24 outside facilities work by customer zone technicians will be
25 administered when such work is required to complete LSRs for

1 unbundled loop services. The balance of the installation costs are
2 recovered through installation charges on a per-line or per-port
3 basis. These NRCs were developed using the assumption from
4 the OMT subteam's analysis that an unbundled service order will
5 contain, on average, five lines or ports. That is, installation costs
6 were divided by five to develop the per-line or per-port installation
7 NRC.

8
9 **Q. HOW WERE THE NRCS FOR RESALE ORDERING AND**
10 **INSTALLATION ACTIVITIES DESIGNED?**

11 A. These charges were designed in essentially the same manner
12 described for unbundled services. The installation charge was
13 developed using the assumption from the OMT subteam's analysis
14 that a resale order will contain, on average, three lines. That is,
15 installation costs identified in the NRC study were divided by
16 three to develop the installation NRC for resale services.

17
18
19 **Q. WOULD YOU PLEASE EXPLAIN THE CIRCUMSTANCES WHICH**
20 **WOULD CALL FOR APPLICATION OF THE PROPOSED RESALE**
21 **NRCS?**

22 A. Yes. There are two resale scenarios, which I will refer to as
23 "new" and "conversion". A "new" resale service is one for an
24 end user who establishes service within a GTE local service area,
25 but chooses an ALEC reseller for local service. A "conversion"

1 represents the loss of an existing GTE retail end user to an ALEC
2 reseller.

3

4 Since the anticipated GTE ordering activities required to complete
5 the associated LSRs are the same, and since the installation
6 charges will be applied only when the installation work is required
7 (e.g., for "new" services) there was no need to distinguish
8 between these two cases in the NRC study, nor in the proposed
9 NRC structure.

10

11

PRICING

12

A. NON-RECURRING CHARGES

13

14 Q. WHAT NRC RATES IS GTE PROPOSING TO THE ALECS FOR
15 SERVICE ACTIVITIES?

16 A. GTE's proposed rate structure and rate levels for NRCs are
17 presented in Exhibit No. DBT-3.

18

19

B. UNBUNDLED NETWORK ELEMENTS

20

21 Q. WHAT RATES IS THE COMPANY PROPOSING FOR UNBUNDLED
22 NETWORK ELEMENTS?

23 A. Exhibit No. DBT-3 also presents GTE's proposed rates for the
24 various unbundled elements (Although the elements identified in
25 Exhibit No. DBT-3 are priced as though they are unbundled

1 elements, GTE does not believe that all the elements in Exhibit
2 No. DBT-3 are "network elements" under the Act.).

3

4 **Q. ARE THE RATE "STRUCTURES" THE COMPANY PROPOSES FOR**
5 **THE DESCRIBED UNBUNDLED NETWORK ELEMENTS**
6 **CONSISTENT WITH THE GUIDELINES PRESENTED IN THE FCC'S**
7 **FIRST REPORT AND ORDER?**

8 **A.** Based on my understanding of the First Report and Order, there
9 are three areas in which GTE's proposal is currently inconsistent
10 with the FCC's Order concerning unbundled network elements:

11

12 (1) GTE is not proposing to establish (at this time) different
13 rates for elements in at least three defined geographic
14 areas to reflect cost differences (Section 51.507(f)). It
15 would be premature to deaverage wholesale rates without
16 also being able to deaverage retail rates -- these rates **must**
17 **be consistent with each other and move together.**

18

19 (2) GTE has not proposed a Local Switching Capability element
20 (Section 51.319(c)).

21

22 (3) GTE has not developed nor proposed rates for unbundled
23 Operations Support Systems ("OSS") functions (Section
24 51.319(f)).

25

1 Q. WHAT IS THE BASIS UPON WHICH THESE UNBUNDLED
2 NETWORK ELEMENT RATES WERE DEVELOPED?

3 A. The procedure employed by the Company along with the
4 economic (and practical) rationale supporting the procedure are
5 the topic of Company's Economic Presentation in this proceeding.
6 Based on the procedures prescribed in the Economic Presentation,
7 the development of the specific rates for each element presented
8 above will be described in the following testimony

9
10 1. Unbundled Loops

11 The basic unbundled loop was priced at GTE's estimate of
12 its Stand Alone Cost ("SAC"). This \$33.08 estimate was
13 not only supported by GTE's Cost Study Submission but
14 also by GTE's analysis of the Benchmark Cost Model -
15 Version II ("BCM II") [The following companies have taken
16 an active role in sponsoring BCM: Sprint, MCI, US West,
17 and NYNEX. See "Benchmark Cost Model," submitted to
18 the FCC, CC Docket No. 80-286, September 12, 1995.
19 BCM II development has been led by Sprint and US West.]
20 which provided another independent estimate of GTE's
21 TELRIC for unbundled loops [The unbundled loop cost
22 estimates resulting from the use of BCM II are presented in
23 Tab 21 of GTE's Cost Study Submission.].

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2. Unbundled Ports

The basic ports were priced at GTE's estimates of the TELRIC for each element plus a minimal amount of contribution to the Company's common costs (approximately 10%).

3. Unbundled Cross Connects

These elements were also priced at GTE's estimates of the TELRIC for each element plus an incremental amount of contribution.

4. Transport, Multiplexing and SS-7 Services

All of these network elements were priced at existing Facility for Intrastate or Facility for Interstate Access Tariff rates, as appropriate.

Q. YOU MENTIONED THAT YOU HAVE BASED YOUR PRICING OF UNBUNDLED LOOPS ON THE METHOD DESCRIBED IN THE ECONOMIC PRESENTATION MATERIAL AND GTE'S ESTIMATE OF STAND-ALONE COSTS. COULD YOU EXPLAIN HOW YOU UTILIZED THIS METHOD TO DEVELOP YOUR PROPOSED RATE LEVELS?

A. As discussed in the Economic Presentation and supported by this testimony, GTE's proposed rate levels utilize the TELRIC of the network element as a price floor. By using the methods described

1 in the Economic Presentation, I arrived at a "reasonable allocation
2 of forward-looking common costs" to be added to each element's
3 TELRIC to determine GTE's proposed price level.

4

5 **Q. HOW HAVE YOU EVALUATED THE REASONABLENESS OF THE**
6 **COMMON COSTS RECOVERED IN YOUR UNBUNDLED LOOP**
7 **RATES?**

8 A. In addition to the pricing rules described in GTE's Economic
9 Presentation, I utilized three basic criteria to assure myself of the
10 overall reasonableness of GTE's proposed unbundled loop rates.

11 These are:

12

13 (1) an evaluation of the relationship of GTE's unbundled loop
14 TELRICs to their respective Interstate special access
15 (special access is a "functionally" equivalent service to an
16 unbundled loop) rates;

17

18 (2) the overall (looking at all services, both wholesale and
19 retail) GTE average percentage contribution levels, above
20 direct cost (I am defining direct cost here as TELRIC and/or
21 TSLRIC), required to achieve full recovery of the
22 Company's forward-looking common costs; and

23

24 (3) the "upper bound" loop price presented in the Economic
25 Presentation.

1 **Q. PLEASE EXPLAIN YOUR APPLICATION OF THE ECONOMIC**
2 **PRESENTATION'S "UPPER BOUND" LOOP PRICE.**

3 A. The "upper bound" loop price can be considered a price level that
4 just preserves GTE's overall levels of contribution to common
5 costs. If GTE were to propose an unbundled loop price above the
6 "upper bound", it would theoretically be making more revenue
7 contributions (and thus, potentially net income), than it does
8 without the introduction of unbundled loops. Thus, GTE's pricing
9 proposals for unbundled loops have a constrained ceiling, even if
10 the "upper bound" price is below GTE's estimate of entrants'
11 "Stand Alone Costs" for unbundled loops.

12

13

14 **Q. WHY DID YOU RELY ON AN EVALUATION OF THE INTERSTATE**
15 **SPECIAL ACCESS RATES IN DETERMINING THE**
16 **REASONABLENESS OF THE COMMON COSTS RECOVERED IN**
17 **YOUR UNBUNDLED LOOP RATES?**

18 A. Special access elements (i.e., two-wire and four-wire special
19 access/entrance facilities) are functionally equivalent to basic
20 unbundled loops. I reviewed GTE's interstate rates to determine
21 their appropriateness as a benchmark for GTE's unbundled loop
22 rates. When this evaluation indicated that the interstate rate for
23 a 2-wire facility was reasonable (above its TELRIC with some
24 contribution to common costs and also below the estimate of
25 "upper-bound" ceiling price), the current two-wire Interstate

1 Entrance Facility rate was proposed for the two-wire unbundled
2 loop.

3

4 **Q. IN THOSE CASES WHERE THE TELRIC EXCEEDED THE CURRENT**
5 **INTERSTATE ENTRANCE FACILITY RATE, HOW DID YOU**
6 **DETERMINE THE REASONABLENESS OF THE COMMON COSTS**
7 **RECOVERED IN YOUR UNBUNDLED LOOP RATES?**

8 A. When the current Interstate Entrance Facility rate was not a good
9 indicator (i.e., below cost), the company relied on the TELRIC as
10 a price floor and the "upper-bound" price as a ceiling for the
11 unbundled loop rate. That is, if the TELRIC was above the current
12 Interstate Entrance Facility rate, then this rate could not be a
13 good indicator of the economic costs of the unbundled loop
14 element. In those cases, the Company determined a mark-up to
15 provide a reasonable contribution to common costs. The
16 proposed rate in this instance provides minimal contribution when
17 compared to the rate required to recover an equal percentage
18 mark-up. Again, in no case do I propose a rate for an unbundled
19 loop that I consider to be above the SAC of an unbundled loop.

20

21 **Q. PLEASE EXPLAIN WHY YOU COMPARED GTE'S PROPOSED**
22 **UNBUNDLED LOOP RATES TO A RATE DERIVED FROM AN**
23 **"EQUAL PERCENTAGE MARK-UP" CALCULATION.**

24 A. The FCC in its First Report and Order at paragraph 696 concluded
25 that "... one reasonable allocation method would be to allocate

1 common costs using a fixed allocator, such as a percentage
 2 markup over the directly attributable forward looking cost."
 3 Although GTE disagrees with this methodology, we wanted to
 4 check our results against the FCC's proposal.

5

6 **Q. HOW DID GTE COMPUTE ITS EQUAL PERCENTAGE (FIXED**
 7 **ALLOCATOR) MARK-UP RATE AS ADVOCATED BY THE FCC,**
 8 **AND HOW DO THESE RESULTS COMPARE WITH THE**
 9 **COMPANY'S METHODOLOGY?**

10 A. As described in GTE's Economic Presentation, GTE computed the
 11 percentage that its total directly attributable forward-looking costs
 12 (i.e., TELRIC and TSLRIC) are of its total economic costs. This
 13 computation was performed using the data presented in Exhibit
 14 No. DBT-2 and resulted in a fixed allocator of ** %** ; thus, the
 15 FCC would imply that one reasonable allocation of common costs
 16 for GTE would be to mark-up all services and network elements
 17 by ** %** , (price = TELRIC*(1 + Fixed Allocator)). The
 18 comparative results of this evaluation are presented in Exhibit No.
 19 DBT-3. As can be seen in Exhibit No. DBT-3, GTE's proposed 2-
 20 wire and 4-wire unbundled loop rates are all below the rates
 21 resulting from the FCC's fixed allocator procedure. But even
 22 though the FCC's methodology would result in higher rates for
 23 GTE than GTE's methodology, GTE does not advocate adoption
 24 of the FCC's methodology.

25

1 Q. WHAT PERCENT MARGIN CONTRIBUTION WILL GTE BE MAKING
2 FROM ITS PROPOSED RATES FOR UNBUNDLED LOOPS?

3 A. Based on an average unbundled loop cost of **\$ **, GTE
4 will achieve an approximate ** %** margin above cost with its
5 proposed \$33.08 unbundled loop rate. We believe this is a
6 reasonable contribution to the Company's common costs, since
7 on the average, across all product offerings GTE must achieve an
8 average ** %** margin above all TELRICs (directly attributable
9 forward looking costs) to fully recover its "forward-looking"
10 common costs.

11

12 Q. COULD GTE'S PROPOSED RATES FOR UNBUNDLED NETWORK
13 ELEMENTS BE CONSIDERED "MAKE-WHOLE" RATES?

14 A. Absolutely not. The major contributor to this "not-make-whole"
15 situation is GTE's proposed unbundled 2-wire loop price of
16 \$33.08. As presented in GTE's Economic Presentation material,
17 the upper bound price (contribution preserving price) for an
18 average business unbundled loop would be **\$ **. The
19 difference between the **\$ ** and GTE's proposed rate of
20 \$33.08 represents a permanent loss of contributions to the
21 Company; **\$ ** "on the average" will be lost for every
22 unbundled loop provisioned to an ALEC's business customers. If
23 ALECs target business customers with above average usage
24 characteristics, the losses in contributions that the Company will
25 experience will greatly exceed **\$ ** per unbundled loop.

1 As can be seen from Exhibit No. DBT-⁴~~3~~, this loss of contributions
2 results from the loss of high margin services (toll, switched
3 access, and vertical services) that will certainly be lost when an
4 ALEC provides a GTE unbundled loop to a business customer.
5 Exhibit No. DBT-4 presents similar data for GTE's average
6 residential customers and presents the computed rates that GTE
7 would be required to charge if it were to be made whole
8 (**\$ ** for business, **\$ ** for residence, or
9 **\$ ** for an "average" unbundled loop), ignoring market
10 realities. GTE's proposed unbundled loop rate of \$33.08 is
11 substantially lower than any make-whole rate.

12
13 It should be noted that the "upper bound" loop rate of
14 **\$ ** is the result of many decades of pricing services
15 based on their perceived "value of service" along with the
16 complementary outcome that revenue contributions from business
17 customers should be used to keep residential rates low. GTE's
18 current rate structure, as mandated by regulation, continues to
19 provide incentives for the inefficient entry of competitors whose
20 major objective will be to capture the above-market contributions
21 that are used by the Company to support public policy objectives.
22 ALECs will use these captured contributions to finance their entry
23 into the local market.
24
25

1 Q. ASSUMING THE COMMISSION ACCEPTS GTE'S PROPOSED
2 UNBUNDLED LOOP RATE, WILL SUCH A RATE PROVIDE
3 REVENUE AND CONTRIBUTION OPPORTUNITIES FOR ALECS TO
4 EFFECTIVELY COMPETE WITH GTE?

5 A. Yes, and the ALECs do not have to be as efficient as GTE for this
6 to occur. Equally efficient entrants would be just as incented to
7 enter the marketplace if GTE's unbundled loop rate were proposed
8 at its "upper bound" loop price; but market conditions preclude
9 this rate from being proposed. As illustrated in Exhibit No. DBT-
10 4, the financial opportunities available to ALECs, in terms of their
11 ability to earn additional contributions to their common costs and
12 overheads, would equal the difference between any revenues GTE
13 would have received from the end users (assuming the ALECs
14 match GTE's retail rates) less the rate of GTE's unbundled loop
15 and any self-provisioned elements.

16
17 At a \$33.08 unbundled loop rate, ALECs should be highly
18 motivated to attract GTE's business customers, whose revenue
19 streams exceed **\$ **. For illustrative purposes let's
20 assume that AT&T obtains 10 percent of GTE's end user
21 customers through the use of GTE's unbundled loop. Under this
22 scenario, the annual revenue contributions available to AT&T,
23 assuming its price and cost structures mirror GTE's, would be
24 over **\$ **million per year as shown in Exhibit No. DBT-4.

25

1 To look at it another way, GTE (on the average for combined
2 business and residence lines) obtains approximately **\$ **
3 contribution per month (The total contribution levels are presented
4 in Exhibit No. DBT-4.); which provides for recovery of the
5 Company's forward-looking common costs. From Exhibit No.
6 DBT-4, one can compute that an equally-efficient ALEC (which we
7 will assume AT&T is) should be able to generate approximately
8 **\$ ** in contribution from an average business customer.
9 Actual contribution levels for ALECs should be larger since they
10 are not likely to be targeting an average business customer, but
11 more likely will be targeting high-volume business customers. In
12 addition, by purchasing GTE's unbundled loop, ALECs will most
13 likely not have any of the common costs that result from the
14 provision of loops, thus it is likely that their level of common
15 costs will be significantly below GTE's average per line amount
16 (**\$ **). Of course the ALECs' contribution gains are also
17 GTE's contribution losses.

18
19 **C. LOCAL INTERCONNECTION**

20
21 **Q. WHAT RATE LEVEL DOES GTE PROPOSE FOR THE**
22 **TERMINATION OF LOCAL TRAFFIC?**

23 **A.** Compensation for termination of local traffic should be based on
24 cost plus a reasonable contribution. However, GTE is willing to
25 negotiate a bill-and-keep arrangement, in the interest of expediting

1 the competitive process, with a mutual compensation provision if
 2 the traffic becomes "out-of-balance." GTE proposes to charge its
 3 ^{ter} intrastate switched access rates for all minutes terminated to GTE
 4 that exceed a "threshold of balanced traffic."

5
 6 **Q. WHY DO YOU BELIEVE THAT GTE'S CURRENT TARIFF RATES**
 7 **FOR INTRASTATE SWITCHED ACCESS ARE REASONABLE RATE**
 8 **LEVELS FOR LOCAL INTERCONNECTION?**

9 **A.** ^{ter} Intrastate switched access rates are rates that represent our
 10 current wholesale offering to interexchange carriers ("IXC"). GTE
 11 has no desire to continually introduce new rate levels that vary by
 12 "class of wholesale customer" (e.g., ALEC versus IXC, etc). The
 13 current switched access rates have been blessed by the
 14 ^{FCC} Commission as appropriate rates for wholesale switching
 15 elements, and with GTE's "bill-and-keep" proposal, these proposed
 16 rates would not be effective until traffic becomes "out-of-
 17 balance". The arbitration process must be cognizant of the
 18 impacts that the "arbitration decision" will have on GTE's entire
 19 non-ALEC product offerings (i.e., decisions in this proceeding
 20 should not exacerbate nor accelerate the arbitrating of GTE's
 21 existing tariffs).

22
 23 **Q. DO MUTUAL COMPENSATION AGREEMENTS CREATE ANY**
 24 **ADDITIONAL RATEMAKING ISSUES?**

25 **A.** Yes. Traditionally, in instances where GTE has paid other Local

1 Exchange Carrier ("LEC"s) to terminate GTE-originated traffic, rate
2 structures have been available that allowed GTE to recover those
3 costs by levying charges to end users. Toll charges and Extended
4 Area Service ("EAS") adders are examples of such rate structures.
5 Historically, when GTE did not have a mechanism to levy charges
6 to end users, GTE did not pay for the termination of its traffic.
7 With mutual compensation, GTE's expenses will increase.
8 Recovery of such costs will necessitate a rate structure that
9 allows charges to end users (the "cost-causer") for originating
10 such traffic. Incumbent LECs, as well as all other
11 telecommunications providers, should have the option of
12 implementing such end user charges. This may require charging
13 all end users for all originating traffic (perhaps with a provision for
14 the terminating customer to accept such charges).

15

16 **D. SERVICE PROVIDER NUMBER PORTABILITY**

17

18 **Q. WHAT RATES ARE GTE PROPOSING FOR SPNP?**

19 **A.** GTE's proposed rates for SPNP can be found in Exhibit No. DBT-
20 3. The rate structure proposed by GTE includes a price per
21 remote call number and a price per call path. Thus, each
22 telephone number requested to be ported will pay the sum of the
23 two charges. If an end user desires additional simultaneous call
24 paths, then the per call path price applies to each requested
25 simultaneous path. The prices for both of these rate elements

1 were set at GTE's TELRIC estimates with an approximate 10%
2 contribution to common cost.

3
4
5 **FCC's PROXY RATES**

6 **A. LOCAL SWITCHING ELEMENT**

7
8 **Q. THE FCC PROPOSED A RATE PROXY OF \$.002 - \$.004 FOR**
9 **BOTH TERMINATION OF LOCAL TRAFFIC AND A LOCAL**
10 **SWITCHING CAPABILITY ELEMENT. YOU HAVE PROPOSED**
11 **GTE'S ^{TER}INTRASTATE SWITCHED ACCESS RATES FOR**
12 **TERMINATING LOCAL TRAFFIC ON THE GTE NETWORK.**
13 **WOULD ^{TER}INTRASTATE SWITCHED ACCESS RATES ALSO BE**
14 **APPLICABLE FOR THE LOCAL SWITCHING CAPABILITY**
15 **ELEMENT?**

16 **A. Absolutely not. First, GTE does not agree that local switching**
17 **capability is a network element. And even if it were, the FCC's**
18 **proposed proxy rate of \$0.002 - \$0.004 per minute would be**
19 **inappropriate.**

20
21
22 From review of testimony in Illinois and California proceedings, it
23 appears that ALECs believe that the FCC's local switching
24 capability element includes all of the switch's functionality,
25 including line and trunk side ports, switching fabric, vertical

1 features and functions, and customized routing capabilities. If
2 this is the case, the \$0.002 - \$0.004 rate is clearly inadequate.
3
4 GTE's TELRIC studies generate a cost for end office switching
5 that is about **\$ **. But this cost is applicable only to the
6 switch fabric function alone, and does not reflect the costs of line
7 or trunk side ports, vertical features and functions or customized
8 routing capabilities. Also, there would be additional costs
9 associated with developing appropriate systems and procedures
10 to allow ordering, provisioning, administration and billing of the
11 Local Switching Capability element since this element is not
12 offered on either a wholesale or retail basis by GTE.

13
14 If GTE were to integrate all of the vertical features that its
15 switches could provide into a "you get them all with switching"
16 package, GTE's required price per minute of use would be
17 astronomical. If each port came with a full complement of
18 vertical services, the full TELRIC cost of the "free" vertical
19 services could easily exceed \$100 per month (see Tab 23 of GTE
20 Cost Study Submission for the TELRICs of most vertical services),
21 which could never be recovered with a \$0.004 per minute of use
22 switching charge. Even for a reasonable level of vertical services,
23 prices for a local switching network element would have to be in
24 the \$0.03 to \$0.05+ per minute range for the Company to
25 recover its forward-looking costs.

B. UNBUNDLED LOOP PROXY RATES

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Q. SHOULD THE FCC'S PROPOSED LOOP PROXY RATES , AS PUBLISHED IN ITS FIRST REPORT AND ORDER) PLAY ANY PART IN THE NEGOTIATION PROCEEDING?

A. No. The FCC's proposed proxies have no relationship to reality. For this state, the FCC's unbundled loop proxy price is \$13.68. But GTE's 2-wire unbundled loop TELRIC is **\$ **. A simple comparison of these two numbers illustrates that the FCC's proxy rate is significantly understated. Similarly, the FCC's price is also significantly understated when compared with the BCM II produced TELRIC [See Tab 21 of GTE's Cost Study Submission.] (** \$ **).

Q. DOES THIS CONCLUDE YOUR TESTIMONY?

A. Yes.

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GTE FLORIDA INCORPORATED
REBUTTAL TESTIMONY OF DENNIS B. TRIMBLE
DOCKET NO. 960847-TP

Q. PLEASE STATE YOUR NAME AND BY WHOM YOU ARE EMPLOYED.

A. My name is Dennis B. Trimble and I am the Assistant Vice President - Marketing Service (Acting) for GTE Telephone Operations ("GTE" or "the Company"). In that capacity I am responsible for, among other matters, analyzing the demand characteristics of GTE's regulated product offerings and developing costs, prices and associated tariff filings for all of GTE's regulated services, inclusive of tariff filing activity with the FCC. My experience and qualifications have been submitted as part of my Direct Testimony filed in this docket on September 10, 1996.

Q. WHAT IS THE PURPOSE OF YOUR REBUTTAL TESTIMONY?

A. The purpose of my rebuttal testimony is to explain why the Florida Public Service Commission (FPSC) should not give any consideration to using the default proxy rates proposed by the Federal Communications Commission (FCC) in its *First Report and Order* issued in CC Docket No. 96-98 on August 8, 1996. Specifically, I address four basic points: (a) to describe the nature

1 of the cost studies that GTE submitted in the FPSC's proceeding
2 No. 950985-TP, and that are referenced in the *First Report and*
3 *Order* (at ¶¶ 793, 808) and why such studies were misused by
4 the FCC; (b) to describe the magnitude of GTE's estimates of total
5 joint and common costs that have resulted from the procedures
6 employed by the Company in the development of its various Total
7 Service Long Run Incremental Cost ("TSLRIC") estimates as
8 submitted in various state proceedings; (c) to compare the results
9 of cost studies prepared using the FCC's prescribed methodology
10 (i.e., Total Element Long Run Incremental Cost or "TELRIC") that
11 GTE has completed with the FCC's mandatory proxy price ceilings
12 which shows that the TELRIC costs are not covered by the proxy
13 rates even before common costs are considered; and (d) to
14 demonstrate generically the shortfall GTEFL will experience by
15 comparing the revenues that would be obtained using the FCC's
16 proxy prices from an average customer (average residence or
17 business) service in GTEFL service area to both the revenues
18 generated from elements priced at GTEFL's TELRICs and to
19 current average per line revenues.

20

21 **Q. HAVE YOU REVIEWED THE FCC'S *FIRST REPORT AND ORDER***
22 **NOTED ABOVE?**

23 **A. Yes.** I have reviewed in detail the FCC's *First Report and Order*
24 issued on August 8, 1996. Among other things, that order establishes
25 a framework of national rules implementing the local competition

1 provisions of the Telecommunications Act of 1996 ("Act") and adopts
2 default proxy ceiling prices that are to be used in an arbitration
3 proceeding as the price for unbundled network elements and resold
4 services unless a state regulatory agency has completed its review
5 of studies that comport to the FCC's prescribed, new costing
6 methodology (at ¶¶ 789-827).

7

8 **Q. DID THE FCC PROPERLY CALCULATE THE PROXY RATES**
9 **EVEN UNDER ITS OWN METHODOLOGY?**

10 A. No. As the attached Exhibits DBT-6 and DBT-7 demonstrate, when
11 GTE adheres to the FCC's prescribed costing methodology, the costs
12 that result are much higher than the mandatory proxy ceiling prices.
13 Specifically, GTE's loop costs average at least 50 percent larger than
14 the FCC's ceiling price, and GTE's unbundled end office switching
15 costs average at least two-and-a-half times the FCC's price ceiling of
16 \$0.004 per minute, even when all possible switching features and
17 functions are not included. Moreover, as Exhibit DBT-7 shows, when
18 GTE compares the revenues that would be obtained from the FCC's
19 proxy prices to either the revenues from elements priced at the
20 TELRICs computed by GTE or to current revenues per line, it is clear
21 that a large gap exists. It is also obvious that the effective discount
22 from the equivalent retail service price using the FCC proxy prices is
23 much larger than the discount ceiling established by the FCC for
24 resold services.

25

1 Q. PLEASE DESCRIBE THE FLORIDA COST STUDIES AND WHY
2 THEY DO NOT SUPPORT THE DEFAULT AND PROXY RATES
3 ESTABLISHED BY THE FCC.

4 A. The cost studies that GTE submitted in the FPSC's Docket No.
5 950985-TP were only intended to identify the TSLRIC cost of local
6 loops (both bundled and unbundled) and end office switching. As
7 described below, there are substantive differences between the
8 methodology used in GTE's Florida study and the FCC's TELRIC
9 methodology. The results of GTE's Florida study cannot in any way
10 be construed to produce a result that approximates a TELRIC-based
11 cost that would be appropriate for use in deriving a proxy cost ceiling.

12
13 The FCC has prescribed that the pricing of network elements shall be
14 based on the TELRIC of the element plus a reasonable share of
15 forward looking joint and common costs. See § 51.505. The FCC
16 further defines a reasonable share of forward looking joint and
17 common costs in the development of unbundled network element
18 prices to depend on many factors including the Stand Alone Cost
19 ("SAC") of the element, market demand characteristics, as well as the
20 overall magnitude of the company's forward looking common costs.
21 *First Report and Order* at ¶¶ 694, 695, 696, 698, 699.

22
23 GTE defines TSLRIC as well as "TELRIC" as the additional cost
24 incurred by the Company to produce the entire output of a particular
25 service or "element", holding constant the production of all other

1 services produced by the Company. While this definition is similar to
2 the FCC's implied definition of TELRIC, the FCC has stated that many
3 of the costs that are correctly defined as joint and common costs in
4 the development of TSLRICs can be directly attributed to specific
5 network elements in the development of TELRICs. *First Report and*
6 *Order* at ¶¶ 678, 682, 694. Thus, the FCC's definition of TELRIC
7 should result in cost estimates that are larger than the TSLRIC for the
8 specific network function that is being studied.

9

10 **Q. CAN YOU QUANTIFY THE MAGNITUDE OF GTE'S JOINT AND**
11 **COMMON COSTS?**

12 **A.** GTE's current TSLRIC/TELRIC methodology for services and
13 unbundled elements includes the following expenses: (a)
14 depreciation, (b) return on investment, (c) income taxes, (d) plant
15 specific maintenance and repair, (e) central office land and buildings,
16 (f) customer operations (e.g., sales), and (g) miscellaneous fees and
17 taxes (e.g., ad valorem tax, gross receipts tax). GTE's
18 TSLRIC/TELRIC methodology does not include the following expense
19 items (they are considered common expenses to the Company): (a)
20 plant specific expenses (e.g., network support, general support, and
21 general purpose computers), (b) plant non-specific expenses (e.g.,
22 network planning, engineering), (c) general support assets (e.g.,
23 furniture, office support equipment, company communications
24 equipment, and general purpose computers), (d) land and buildings
25 (other than central offices), (e) indirect labor, (f) corporate expenses,

1 and (g) other taxes and fees, such as local franchise taxes, federal
2 superfund taxes, local and state business license and occupation
3 taxes). It is not unusual for these expense categories to represent
4 from 35% to 45% of the Company's total accounting costs.

5
6
7 The total amounts in these common cost categories are appropriately
8 excluded from GTE's TSLRIC/TELRIC studies because GTE's USOA-
9 based accounting system records do not contain sufficient information
10 to directly attribute (if appropriate) any of these expenses to specific
11 network elements, and/or there is not a cost-causative method to
12 associate these to specific elements of the network. The USOA-
13 driven accounts, which GTE has identified as representing common
14 costs, might include many items that are, in reality, service (or
15 element) specific. However, as I have previously stated, those costs
16 cannot be separately identified because the USOA-based accounting
17 system does not contain a level of detail sufficient to allow direct
18 attribution of those costs to their appropriate service (or network
19 element). Thus, the USOA-based accounting processes limit GTE
20 from identifying any remaining costs that may belong in the FCC's
21 definition of TELRIC. However, even if GTE possessed an elaborate
22 (and expensive) managerial accounting system that facilitated the
23 direct assignment (when appropriate) of these common costs to
24 specific network elements, this capability would only result in a minor
25 change in the level of GTE's "total" common costs. I believe that the

1 USOA accounts that GTE currently incorporate in its TSLRIC studies
2 represent a vast majority of all directly assignable costs.

3

4 Paragraph 694 of the *First Report and Order* states: "Certain common
5 costs are incurred in the provision of network elements. As discussed
6 above, some of these costs are common to only a subset of the
7 elements or services provided by the incumbent LEC's. Such costs
8 shall be allocated to that subset, and should then be allocated among
9 the individual elements of services in that subset, to the greatest
10 possible extent" (*Emphasis added*). GTE's TSLRIC/TELRIC studies
11 do not attempt to perform this allocation of common costs. Allocation
12 of these common costs to specific products for recovery is
13 accomplished through GTE's pricing activities, not through GTE's
14 incremental costing activities. Thus, GTE's TSLRIC/TELRIC
15 methodologies (as currently employed) will lead to incremental cost
16 estimates that are likely to be substantially below what the FCC
17 intended to be incorporated in the development of TELRICs. It is my
18 belief that the FCC has relied upon benchmark prices (and/or costs),
19 as filed in various states, that do not incorporate an allocation of
20 common costs, and thus only represent the incremental cost of a
21 network element and not the total, average cost of that element.

22

23

24 **Q. DO GTE'S COST STUDIES INCORPORATE JOINT AND COMMON**
25 **COSTS?**

1 A. As I stated previously, the methodology GTE currently employs to
2 develop its TSLRIC/TELRIC estimates does not incorporate
3 significant levels of joint and common costs. These costs must be
4 recovered through the pricing of services. For Florida, as submitted
5 in my direct testimony (Exhibit DBT-2), GTE Florida's forward looking
6 joint and common costs are approximately \$500 million annually
7 which equates to 65% of the total costs identified in GTEFL's filed
8 TSLRIC/TELRIC estimates. (Thus, GTEFL's total economic costs
9 could be recovered by pricing all network elements so that they
10 achieved an average 65% markup over their TSLRIC/TELRIC
11 estimates).

12

13 **Q. HAVE YOU IDENTIFIED SPECIFIC ERRORS ASSOCIATED WITH**
14 **THE FCC'S USE OF THE FLORIDA LOOP COST STUDIES?**

15 A. In the development of its unbundled loop proxy price (ceiling price) for
16 Florida, the FCC weighted the interim 2-wire unbundled loop rates for
17 Bell South (\$17.00) and United/Centel (\$15.00) and the approved
18 rate for GTE (\$20.00) as set by the FPSC and computed a state-wide
19 average price of \$17.28 based upon the Florida figures. *First Report*
20 *and Order* at ¶¶ 792, 793. The FCC assumed that the rates ordered
21 by the FPSC were rational proxies for TELRIC plus a reasonable
22 allocation of forward-looking common costs. But, GTEFL's approved
23 rate of \$20.00 provides only an insignificant contribution to common
24 costs (approximately 2% above GTEFL's filed TSLRIC/TELRIC
25 estimate and far below the average 65% that would be required in

1 Florida). The FPSC's order that prescribed GTEFL's \$20.00
2 unbundled loop rate specifically stated "that GTEFL's rates for
3 unbundled loops shall approximate TSLRIC" (Docket No. 950984-TP,
4 Order No. PSC-96-0811-FOF-TP, page 31). There was no
5 recognition of reasonable contribution to forward-looking common
6 costs, as discussed by the FCC.

7
8
9 United/Centel's cost study for an unbundled loop was found by the
10 FPSC to be inadequate to support the development of rates for an
11 unbundled loop as the costs could not be identified as either LRIC or
12 TSLRIC estimates. Based on judgment, the FPSC set an interim rate
13 of \$15.00 for United/Centel and also ordered United/Centel to
14 complete appropriate cost studies (Docket No. 950984-TP, Order No.
15 PSC-96-0811-FOF-TP, p. 32). The FCC assumed that the \$15.00
16 rate set by the FPSC is a reasonable depiction of United/Centel's
17 TELRIC plus "reasonable allocation of forward-looking common
18 costs" as is required by § 51.505(a)(2). But as noted above, in
19 setting loop rates the FPSC did not include any reasonable
20 contribution to forward-looking common costs.

21
22 Likewise, the FPSC found Bell South's filed cost studies for
23 unbundled elements to be deficient which led the FPSC to set an
24 interim rate of \$17.00 for Bell South's unbundled 2-wire loop. Bell
25 South was also ordered to file cost studies to support the

1 development of a permanent unbundled loop rate (Docket No.
2 950984-TP, Order No. PSC-96-0444-FOF-TP, p. 19).

3
4 To meet its own criteria, the FCC's proxy prices should be
5 constructed to reasonably reflect statewide average TELRIC plus a
6 "reasonable allocation of forward-looking common costs." However,
7 in the development of Florida's proxy price for unbundled 2-wire loops
8 the FCC relied on FPSC ordered rates. Of the three rates used by
9 the FCC, only GTE's rate had any accepted cost support. Moreover,
10 even GTE's rate did not contain any reasonable contribution as
11 toward joint and common costs as required under the FCC's own
12 pricing guidelines. § 51.505 The FPSC's ordered rates were
13 intended to have little or no contribution above TSLRIC. When this
14 fact is combined with the fact that TELRIC should be higher than
15 TSLRIC (*First Report and Order* at ¶ 678), the obvious conclusion is
16 that the proxy ceiling of \$17.28 that the FCC found the studies
17 produce for Florida is too low and that it cannot be construed to be an
18 estimate of TELRIC plus a "reasonable allocation of forward-looking
19 common costs" as is required by § 51.505(a)(2). But the FCC did not
20 use this rate. Instead, its proposed proxy ceiling rate for Florida of
21 \$13.68 is apparently calculated from another model using the
22 unweighted approved Florida rates as a scaling factor. (*Id.* at ¶ 794)
23 The FCC's proxy ceiling for unbundled loops in Florida can only be
24 considered arbitrary and inappropriate.

25

1 **Q. HAVE YOU IDENTIFIED SPECIFIC ERRORS ASSOCIATED WITH**
2 **THE FCC'S USE OF FLORIDA'S UNBUNDLED SWITCHING COST**
3 **STUDIES?**

4 **A. For unbundled switching, the FCC defined the local unbundled**
5 **switching element to encompass line-side and trunk-side facilities**
6 **plus all of the features, functions, and capabilities of the switch. (*Id.***
7 **at ¶ 412) The line-side facilities include the connection between a**
8 **loop termination at, for example, a main frame distribution frame**
9 **(MDF), and a switch line card. The trunk-side facilities include the**
10 **connection between, for example, trunk termination at a trunk-side**
11 **cross-connect panel and a trunk card. The "features, functions, and**
12 **capabilities" of the local switch include the basic switching function of**
13 **connecting lines to lines, lines to trunks, trunks to lines, trunks to**
14 **trunks. It also includes the same basic capabilities that are available**
15 **to the incumbent LEC's customers, such as a telephone number,**
16 **directory listing, dial tone, signaling, and access to 911, operator**
17 **services, and directory assistance. In addition, the local switching**
18 **element includes all vertical features that the switch is capable of**
19 **providing, including custom calling, CLASS features, and Centrex, as**
20 **well as any technically feasible customized routing functions.**

21
22 **In the *First Report and Order* (at ¶ 803), the FCC discusses the**
23 **estimates of the cost for end-office switching. The FCC also**
24 **discusses the costs and rates for transporting and terminating traffic**
25 **for interconnection purposes and concludes, that a range between**

1 0.2 cents (\$0.002) per minute of use and .4 cents (\$0.004) per minute
2 of use for unbundled local switching is a reasonable default proxy.
3 (*Id.* at ¶¶ 805-809, 811) Thus, the FCC reasoned: "We, therefore,
4 conclude that 0.2 cents (\$0.002) per minute of use is a reasonable
5 lower end of the price for end-office switching." (*Id.* at ¶ 812)

6
7 A review of the record relied upon by the FCC in determining the
8 range of proxy rates for the unbundled local element defined in §
9 51.513 for local switching demonstrates that the FCC used
10 incomplete data for the costs for end-office switching and local
11 interconnection. The costs for the functions that support the rates for
12 end-office switching and local interconnection simply do not match
13 the description of the unbundled local switching element the FCC has
14 laid out. (*First Report and Order* at ¶ 412) The cost studies on which
15 the FCC relied measure only the incremental cost of end office
16 switching for local interconnection. End office switching used for local
17 interconnection only includes the basic switching function of
18 connecting lines to trunks and trunks to lines. There is no cost or rate
19 evidence in the record regarding the remaining features, functions,
20 and capabilities of the switch that are included in the FCC's definition
21 of the unbundled switching element. By relying on studies that take
22 into account the cost of only a fraction of the switching element as
23 defined in the rules, the FCC has established an unreasonably low
24 proxy rate for the local switching element.

25

1 **Q. CAN YOU EXPLAIN THE DIFFERENCES BETWEEN THE FCC'S**
2 **TELRIC COSTS AND GTE'S STUDY FILED IN FLORIDA**
3 **REGARDING UNBUNDLED END OFFICE SWITCHING?**

4 **A. For unbundled end office switching, the difference between the FCC's**
5 **objective TELRIC costs and the GTE study filed in Florida are**
6 **significant. These crucial differences are:**

7
8 **a. First and foremost, the GTE study did not attempt to determine**
9 **the cost of unbundled end office switching that would be used**
10 **by a requesting party to provide local exchange service. The**
11 **study determined only the incremental costs associated with**
12 **terminating an additional minute of use when two networks are**
13 **interconnected for the purpose of exchanging traffic;**

14
15 **b. At the time GTE filed its study in Florida it did not have the**
16 **procedures in place to identify the fixed costs associated with**
17 **central office land and buildings. As a result, these expenses**
18 **were not included in GTE's TSLRIC/TELRIC filed in Florida.**
19 **This expense item, which is now included on a going-forward**
20 **basis in GTE's TSLRIC/TELRIC studies, is a significant**
21 **contributor to the average cost of end-office switching. Central**
22 **office land and buildings expenses can account for up to 60%**
23 **of the total TSLRIC/TELRIC of end-office switching; and**

24
25

1 c. As discussed previously, GTE's procedure for estimating
2 TSLRICs/TELRICs tends to exclude costs (which GTE has
3 termed as joint and common) that properly belong in what the
4 FCC defines as TELRIC/TELRIC. Again, this further supports
5 the conclusion that GTE's TSLRIC estimates, as filed in
6 Florida, are likely to dramatically understate what the FCC
7 would term a TELRIC estimate, and would be far less than an
8 estimate of TELRIC plus "a reasonable allocation of forward-
9 looking common costs." § 51.505(a)(2).

10

11 Thus, the numbers on which the FCC relied upon are too low
12 because they were based on GTE Florida filed estimates. *First*
13 *Report and Order* at ¶ 808. By relying on such figures that did not
14 include all of the costs included in the FCC's own TELRIC
15 methodology, the FCC has picked a benchmark number for end-office
16 switching costs that is significantly under-stated.

17

18 **Q. CAN YOU PROVIDE AN ILLUSTRATION?**

19 **A.** To illustrate this fact, an analysis prepared under my direction
20 compares the FCC's proxy ceiling price for unbundled switching to the
21 actual cost of providing that unbundled feature. This was done by
22 selecting two typical local central office switches and determining the
23 cost per year to operate those switches. The costs are for
24 maintenance, support structures, capital costs, and an average
25 distribution of overheads. These are all costs that the FCC has

1 specified as being appropriate for inclusion in unbundled elements.
2 See *First Report and Order* at ¶¶ 682, 691. These current costs were
3 reduced by 17% of total revenues based upon the FCC's estimate of
4 costs that would be avoided if an ILEC were not in the retail business.
5 (From the studies I have reviewed, I believe the costs avoided are
6 less than this amount, but this amount was used to base the analysis
7 on the FCC's own cost avoidance projection). The appropriate unit
8 of analysis is the entire central office switch, because the FCC
9 specified the party obtaining a unit of unbundled switching will also
10 have access to all of the features and functions of the switch. The
11 results of the switching cost analysis are shown on Exhibit DBT-5.

12

13 **Q. DO THE FCC'S DEFAULT AND PROXY RATES COVER GTE'S**
14 **TELRIC COSTS?**

15 **A.** No. The switching cost analysis shows that, at a price per minute
16 ranging from \$.002 to \$.004 (the FCC specified proxy ceiling price),
17 the total revenue that would be generated by applying those prices to
18 all local and access minutes of use falls well short of recovering the
19 actual costs of providing the unbundled switching element (depicted
20 by "% UNRECOVERED USING PROXY" line on Exhibit DBT-5).
21 The shortfall results from a reliance by the FCC upon cost studies
22 presented to, or decisions made by, state commissions that were
23 designed to estimate the incremental cost of switching one
24 minute of calling exchanged between two networks that are
25 interconnected.

1 GTE's TELRIC cost studies are based upon the methodology
2 prescribed by the *First Report and Order* (at ¶¶ 672-702). GTE
3 first calculated the direct forward-looking cost of each network
4 element. GTE then determined the common costs that could not be
5 attributed to any particular element or sub-group of elements.
6 According to the FCC's methodology, these latter costs are to be
7 allocated to all network elements during the pricing process.

8
9 The *First Report and Order* specified (at ¶ 744) that the rate for
10 unbundled local loops be a flat, per-month charge. Further, the FCC
11 specified (at ¶ 794, Appendix D) the statewide average ceiling price
12 that a state regulatory agency could adopt in an arbitration
13 proceeding unless the state commission had completed its review of
14 cost studies that comport to the FCC methodology. Exhibit DBT-6
15 shows the results of the GTE cost studies for loops in several states
16 where GTE serves a large number of customers. The cost developed
17 using a TELRIC methodology averages 50 percent larger than the
18 FCC's proxy ceiling price. This difference clearly supports my
19 conclusion that the FCC's loop proxy price is arbitrary and
20 inappropriate because it is based upon a mixture of cost estimates for
21 only the bare incremental cost of a loop, rather than being based
22 upon a TELRIC methodology. Further, to assure a proper
23 comparison, neither the proxy price nor the GTE TELRIC results
24 described above include any allocation of common costs as the
25 FCC's own cost methodology requires.

1 The *First Report and Order* specified (at ¶ 412) that the unbundled
2 local switching network element is to include not only line-to-line and
3 line-to-trunk "basic switching," but also all of the features, functions,
4 and capabilities, such as a telephone number, directory listing, dial
5 tone, signaling, and access to 911, operator services and directory
6 assistance, all vertical features including custom calling and CLASS
7 features, Centrex, and any technically feasible customized routing
8 functions. The unbundled local switching rate structure is required to
9 include "a combination of a flat-rated charge for line ports, which are
10 dedicated to a single new entrant, and either a flat-rate or per-minute
11 usage charge for the switching matrix and for trunk ports, which
12 constitute shared facilities, best reflects the way costs for unbundled
13 local switching are incurred." *Id.* at ¶ 810. Unless a state regulatory
14 agency has completed its review of cost studies that comport with the
15 FCC's costing methodology, state agencies are required (*Id.* at ¶ 815)
16 to set the rate for unbundled local switching "so that the sum of the
17 flat-rated charge for line ports and the product of the projected
18 minutes of use per port and the usage-sensitive charges for switching
19 and trunk ports, all divided by the projected minutes of use, does not
20 exceed 0.4 cents (\$0.004) per minute of use and is not lower than 0.2
21 cents (\$0.002) per minute of use."

22
23 Exhibit DBT-7 compares the FCC's proxy price for unbundled local
24 switching to the results of cost studies prepared by GTE using the
25 FCC's TELRIC methodology. Shown are GTE's cost estimates for

1 three end office switching cost elements for a number of states where
2 GTE serves a large number of customers. Those elements are: (i) a
3 per minute cost to switch a call; (ii) a per line per month cost for the
4 non-usage sensitive components of a switch (e.g., line card); and (iii)
5 a per line per month cost for a representative feature package. The
6 cost element of a per line, per month cost for the feature package was
7 chosen to comply with the FCC's mandate that a rate structure
8 recover costs "in a manner that efficiently apportions costs among
9 users." *First Report and Order* at ¶ 755. It is very important to note
10 that the feature package selected for illustrative purposes does not
11 include all of the features, functions and capabilities that a switch may
12 be capable of providing. The package selected includes only many
13 of the most commonly used features (e.g., Call Waiting, Emergency
14 Bureau Access, Speed Calling, Time of Day Routing). Also not
15 included in any of the three cost estimates in Exhibit DBT-7 are the
16 costs associated with a directory listing or the more esoteric switch
17 features such as customized routing and Meet-Me Conference
18 Bridging. The feature package used in calculating the cost for two
19 states shown in DBT-7, Ohio and Wisconsin, did include additional,
20 more advanced features, just to show the potential cost impact on a
21 per minute basis.

22
23 To provide a logical comparison, GTE converted the two per line, per
24 month cost elements into an equivalent per minute cost by dividing by
25 the average switched minutes of use per month, including minutes

1 associated with both local and long distance calls. The result of this
2 calculation is a composite TELRIC per minute cost that is three-and-a
3 half times the FCC's upper price ceiling of \$0.004, even when
4 ignoring the two states with feature packages that include
5 extraordinary features. These results confirm my conclusion that the
6 FCC's local switching proxy price was based upon information that
7 estimated the incremental cost of line-to-line or line-to-trunk basic
8 switching, but did not, as the FCC's own methodology requires,
9 include either the costs related to other switch features and functions,
10 or common costs.

11

12 **Q. IF THE DEFAULT AND PROXY RATES ARE IMPLEMENTED IN**
13 **FLORIDA, WILL GTE EXPERIENCE A REVENUE SHORTFALL?**

14 **A.** Exhibit DBT-8 compares the FCC's proxy price for a combination of
15 unbundled local switching and an unbundled local loop (*i.e.*, the
16 reassembled equivalent of local service) to both the results of a GTE
17 Florida ("GTEFL") TELRIC study, and to current average revenues
18 per line in Florida. To prepare this comparison, GTE derived the
19 average monthly usage per line, including local and toll minutes of
20 use, for an average of residence and business lines. This average
21 number of minutes was multiplied by the FCC's proxy price ceiling of
22 \$0.004 per minute, and that switched usage revenue amount was
23 added to the flat rate components that would also be needed to
24 comprise reassembled local service (*i.e.*, a local loop and a Network
25 Interface Device, or "NID"). GTE also derived the current revenues

1 per line for an average of Florida residence and business lines,
2 including flat rate local charges, local and toll usage charges, and
3 vertical feature charges. When the unbundled network elements of
4 switching, a loop and a NID are combined to replicate local service,
5 the revenues from those elements when priced at the FCC's proxy
6 rates are approximately half of GTEFL's TELRIC for the combined
7 service (Exhibit DBT-8, \$18.55 compared to \$37.31 per month). This
8 comparison of price to cost understates the shortfall, because by
9 definition TELRIC does not include an allocation of common costs.
10 Further, the FCC's proxy prices would provide new entrants with
11 approximately a 40 percent discount off GTEC's current average retail
12 revenue per line in California (Exhibit DBT -8, \$18.55 compared to
13 \$31.25 per month). Clearly neither the FCC proxy price nor the
14 TELRIC methodology come anywhere close to providing revenues
15 that cover GTE's cost of providing service.

16
17 Moreover, the 40 percent discount that results from the FCC proxy
18 price cannot be squared with the FCC's interim wholesale rates.
19 Section 51.611 of the FCC's rules requires that resale discounts
20 should be "no more than 25 percent." Thus, the FCC's proposed
21 requirements for its two pricing mechanisms (resale and unbundling)
22 are totally inconsistent. The potential discount is significantly below
23 the Company's costs and would result in GTE subsidizing competitive
24 entry.

25

1 Based upon my and my staff's review of the FCC's *First Report and*
2 *Order*, I am convinced that the FCC's proxy price ceilings for
3 unbundled loops and local switching are significantly understated and
4 in absolute conflict with §§ 51.319(c)(1)(C), 51.503 and 51.505.

5

6 **Q. DOES THAT CONCLUDE YOUR TESTIMONY?**

7 **A. Yes, it does.**

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GTE FLORIDA INCORPORATED
DIRECT TESTIMONY OF DENNIS B. TRIMBLE
DOCKET NO. 960980-TP

Q. PLEASE STATE YOUR NAME, BUSINESS ADDRESS, AND TITLE.

A. My name is Dennis B. Trimble. My business address is 600 Hidden Ridge Drive, Irving, Texas, 75015.

Q. ARE YOU THE SAME DENNIS B. TRIMBLE WHO FILED DIRECT TESTIMONY IN DOCKET 960847-TP, THE ARBITRATION BETWEEN GTE AND AT&T?

A. Yes. That Testimony was filed on September 10, 1996.

Q. WHAT WAS THE PURPOSE OF THAT EARLIER-FILED TESTIMONY?

A. Through that Testimony, I sponsored GTE's cost studies for (1) unbundled network elements and associated ordering/provisioning non-recurring charges; (2) interconnection elements; (3) collocation elements; and (4) service provider number portability. I also presented GTE's proposed pricing for each of these categories of elements.

Q. DO THE COST STUDIES AND PRICING PROPOSALS YOU PRESENTED IN RESPONSE TO AT&T'S PETITION HOLD TRUE WITH REGARD TO MCI AS WELL?

1 A. Yes. These same costing and pricing principles apply to both AT&T's
2 and MCI's requests for interconnection and unbundling. As such, it
3 would be unduly repetitive to submit wholly new testimony with regard
4 to MCI. I am therefore adopting my Direct Testimony filed in the
5 AT&T arbitration as my Direct Testimony in this MCI arbitration. This
6 approach is consistent with my understanding that the AT&T and MCI
7 arbitrations have been consolidated for resolution in a single docket.
8 To the extent GTE needs to address MCI-specific issues and
9 positions, I will do that in my Rebuttal Testimony to be filed later.

10

11 **Q. IN ADDITION TO YOUR TESTIMONY ON THE PRINCIPLES**
12 **UNDERLYING GTE'S COST STUDIES, ARE YOU GTE'S EXPERT**
13 **ON THE PARTICULARS OF THE COST STUDIES THEMSELVES?**

14 A. No. GTE will sponsor another witness, Bert Steele, to answer specific
15 questions on the details of the cost studies themselves.

16

17 **Q. DOES THAT CONCLUDE YOUR TESTIMONY?**

18 A. Yes, it does.

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1 GTE FLORIDA INCORPORATED

2 REBUTTAL TESTIMONY OF DENNIS B. TRIMBLE

3 DOCKET NO. 960980-TP

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6 Q. PLEASE STATE YOUR NAME, BUSINESS ADDRESS, AND TITLE.

7 A. My name is Dennis B. Trimble. My business address is 600 Hidden
8 Ridge Drive, Irving, Texas, 75015.

9

10 Q. ARE YOU THE SAME DENNIS B. TRIMBLE WHO FILED
11 REBUTTAL TESTIMONY IN DOCKET 960847-TP, THE
12 ARBITRATION BETWEEN GTE AND AT&T?

13 A. Yes. That testimony was filed on September 24, 1996.

14

15 Q. WHAT WAS THE PURPOSE OF THAT EARLIER-FILED
16 TESTIMONY?17 A. Through that testimony, I explained why the default proxy rates
18 established by the FCC are inappropriate for consideration by the
19 Commission in Florida. Because that testimony also applies to MCI's
20 petition for arbitration, I am adopting the rebuttal testimony filed in
21 Docket 960847-TP in this docket as well. However, MCI also raised
22 an additional issue which I address below.

23

24 Q. WHAT INTRASTATE ACCESS CHARGES, IF ANY, SHOULD BE
25 COLLECTED ON A TRANSITIONAL BASIS FROM CARRIERS

1 **WHO PURCHASE GTEFL'S UNBUNDLED LOCAL SWITCHING**
2 **ELEMENT?**

3 A. GTEFL will assess a per minute charge to the ALEC for all traffic
4 switched by GTEFL (local, intraLATA toll, and interexchange - both
5 intra- and interstate). For calls that "traverse" an *unbundled local*
6 switching element (i.e., port) that was purchased by the ALEC and
7 would incur access charges in today's environment, GTEFL will
8 assess the local switching rate plus CCL and RIC. These charges
9 should not be referred to "access charges;" rather they are local
10 switching charges that provide continued contributions in lieu of
11 access charges. They do not alter the ALEC's right/obligation to
12 assess access charges. The ALEC will be responsible for assessing
13 access charges on the IXC. Note that for calls that do not traverse
14 an unbundled port, full switched access rates will apply.

15
16 The FCC notes that application of these elements is intended to
17 provide continued contribution to universal service and local service
18 rate support objectives. Therefore, application of the rates should
19 continue at their currently tariffed levels and not at the diminished
20 levels contained in the *FCC First Report and Order*. To do so would
21 be ratemaking in an arbitrary and capricious manner, as no
22 justification has been provided for applying only 75% of the RIC and
23 GTEFL has not been provided any rate relief on those rates currently
24 enjoying the benefits of contribution from access charges.

25

1 **Q. HOW LONG SHOULD ANY TRANSITIONAL PERIOD LAST?**

2 Application of these rate elements should continue until a
3 "reassignment" of revenues associated with these elements to
4 appropriate rate elements is fully addressed. This is likely to occur
5 through access reform, universal service and some form of rate
6 rebalancing. GTEFL fully supports efforts to rationalize all rates,
7 including local and access. It is our belief that only when rates have
8 been fully rationalized can the magnitude of the funding issues
9 associated with public policy choices be identified and dealt with.
10 Further, GTEFL believes that funding of these public policy choices
11 must be accomplished in a competitively neutral manner.

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13 **Q. DOES THAT CONCLUDE YOUR TESTIMONY?**

14 **A. Yes, it does.**

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CONTINUED DIRECT EXAMINATION

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BY MR. FUHR:

Q Mr. Steele, would you state your name for the record?

A (By Witness Steele) Bert Steele.

Q And by whom are you employed?

A GTE Telephone Operations.

Q And what is your position there and what is your business address?

A I'm the Manager of Pricing and Tariff Support. I'm at 600 Hidden Ridge, Irving, Texas.

Q Mr. Steele, have you caused to be filed Direct Testimony in Docket No. 960847?

A Yes.

Q And, Mr. Steele, was there attached to that Direct Testimony or appended to it two sets of exhibits?

A Yes, and I believe one of them was recorded yesterday as Exhibit 36, if my memory is correct.

Q I believe that is the right number, Exhibit 36. That's right, and that came in I believe during the testimony of Mr. Wellemeyer.

CHAIRMAN CLARK: Well, let me ask a question. I have Mr. Steele's -- I have Direct Testimony in 960980 and 960847. I don't have any attachments.

MS. CANZANO: I think, Chairman Clark, probably because those would have been confidential and you would

1 have -- Some of those were confidential at the time the
2 testimony was filed and that's probably why you don't actually
3 have the attachments right now. Subsequent to that GTE has,
4 you know, withdrawn confidentiality. So Staff is currently
5 making some public versions of that, so you can have the
6 attachments.

7 MR. GILLMAN: The attachments to Bert Steele's
8 testimony is Exhibit 36, as well as these five binders.

9 CHAIRMAN CLARK: So we don't have to identify them?

10 MR. GILLMAN: Yes, they need to be identified.

11 COMMISSIONER KIESLING: Could I go back to one point
12 before that? All I have is one set of Rebuttal and it's in the
13 AT&T docket.

14 CHAIRMAN CLARK: To be clear, I have Direct in the MCI
15 docket and Rebuttal. I think I did say it was Direct, but what
16 I have is Rebuttal. What should I have?

17 MR. GILLMAN: I think you're correct, Chairman Clark.

18 CHAIRMAN CLARK: So you have Direct in the MCI docket,
19 which is 960980, and Rebuttal in the AT&T docket?

20 MR. GILLMAN: Chairman Clark, we're proposing to, with
21 this witness, is to introduce into the record Exhibit No. 36,
22 it's already been identified, as well as the five binder backup
23 set, all of which is confidential, which I think should be
24 marked as a separate exhibit at this time.

25 CHAIRMAN CLARK: All right. Okay. But that's all we

1 have to identify for him?

2 MS. CANZANO: I believe -- I have just been informed
3 by Staff that what has been identified as BIS-2 contains the
4 five binders that Mr. Gillman is referring to and that copies
5 have not been provided, that they're too voluminous to be
6 copied.

7 MR. GILLMAN: I think the main binder ought to be
8 identified as one exhibit and the five binders ought to be
9 identified as a second exhibit.

10 CHAIRMAN CLARK: What is the main binder?

11 MR. GILLMAN: The main binder is already identified as
12 Exhibit 36.

13 CHAIRMAN CLARK: All right. I'm not going to identify
14 that again. So that stays as 36.

15 Now what do you want me to identify as Exhibit 51?

16 MR. GILLMAN: These five binders, referred to as GTE
17 Florida, TSLRICs Supplemental Materials, Books 1 through 5.

18 CHAIRMAN CLARK: Okay. GTE Florida's TSLRIC.

19 MR. GILLMAN: Supplemental materials.

20 CHAIRMAN CLARK: Okay.

21 MR. GILLMAN: Books 1 through 5.

22 CHAIRMAN CLARK: And they are confidential?

23 MR. GILLMAN: Yes, they are. And because of their
24 voluminous nature, we haven't made copies and I don't expect
25 there will be any specific questions on these binders.

1 CHAIRMAN CLARK: All right. We'll label that as
2 Exhibit 51.

3 MR. FUHR: Thank you.

4 (Exhibit No. 51 marked for identification.)

5 BY MR. FUHR (Continuing):

6 Q Mr. Steele, do you have any changes or modifications
7 to the testimony that we have just referenced?

8 A (By Witness Steele) I have one change.

9 Q And would you describe that change?

10 A Yes. There is a summary page that's in Exhibit 36,
11 under tab 2. Let me turn to the second page and that tab will
12 be consistent with Mr. Trimble's --

13 COMMISSIONER DEASON: Before we go any further, I want
14 to -- Are we supposed to have Exhibit 36 either in a redacted
15 form or in a confidential form? This is right, right here? Is
16 this 36, the entire thing?

17 MR. HATCH: I believe so.

18 COMMISSIONER DEASON: Okay. Excuse me.

19 WITNESS STEELE: Yes, sir. Under tab 2 under Exhibit
20 36, the second page, needs to be a change to be consistent with
21 what Mr. Trimble testified to a few minutes ago.

22 Halfway down the page, under the item No. 6, you'll
23 see "remote call forwarding feature." And after that you'll
24 see "simultaneous call capability." To be consistent with
25 Mr. Trimble's testimony, would you please write "-- initial"

1 next to the word "capacity." Strike the cost amount there of
2 "\$4.67" and put next to it "1.72."

3 And also there's a "simultaneous call capability --
4 additional."

5 CHAIRMAN CLARK: Hang on a minute, Mr. Steele. He's
6 giving out numbers. Do you want him -- Do you want to provide
7 those numbers otherwise?

8 MR. GILLMAN: Those particular numbers have not --
9 have been declassified.

10 CHAIRMAN CLARK: Okay. I'm sorry. Go ahead.

11 WITNESS STEELE: Yes, ma'am. Again, "simultaneous
12 call capability -- additional", it's \$2.78.

13 I believe that this same summary sheet is shown in
14 Exhibit 51. This same change would apply there, again, under
15 tab 2, the second page.

16 That concludes my changes.

17 BY MR. FUHR (Continuing):

18 Q Mr. Steele, with those changes, and if I were to ask
19 you the same questions in your prefiled testimony that we have
20 described, would your answers today be the same as those
21 contained therein?

22 A (By Witness Steele) Yes, they would. I will note,
23 however, that consistent with the request by Staff, as part of
24 my late-filed exhibit requirements, I did do some analysis for
25 2-wire and 4-wire unbundled loop elements, which are contained

1 in Late-Filed Exhibit No. 8 for GTE. Those do not result in a
2 change in my exhibits, however.

3 Q With that exception then, are the answers to your
4 testimony today the same as they would be, as they were back
5 then when you prefiled this testimony?

6 A Yes.

7 CHAIRMAN CLARK: Hang on a minute. What Late-Filed
8 Exhibit 8 are we talking about?

9 MR. GILLMAN: Late-filed exhibit is one of the Staff
10 exhibits.

11 CHAIRMAN CLARK: Is that something from a deposition?

12 MR. GILLMAN: Uh-huh, a late-filed exhibit from
13 Mr. Steele's deposition.

14 CHAIRMAN CLARK: All right. Why don't we let him make
15 that correction when Staff identifies them. All right. So at
16 this point we are only inserting into the record the Prefiled
17 Direct Testimony of Mr. Steele in Docket 960980 and the
18 Prefiled Rebuttal Testimony of Mr. Steele in 960847.

19 MR. FUHR: Precisely.

20 MR. MELSON: Chairman Clark.

21 CHAIRMAN CLARK: And that testimony will be inserted
22 in the record as though read.

23 Mr. Melson.

24 MR. MELSON: Just so I'm clear, back to Mr. Trimble's
25 Direct Testimony that was inserted, I've got both the redacted

1 and unredacted copy, and I would like to clarify which version.
2 I believe at this point there is no confidential information in
3 it and that the unredacted version should go into the record.

4 CHAIRMAN CLARK: Yeah, that's Exhibit 49, as I
5 understand it.

6 MR. MELSON: No, ma'am. The Direct Testimony itself,
7 the Qs and As had some redacted pieces that I believe are no
8 longer claimed to be confidential.

9 CHAIRMAN CLARK: Okay.

10 MS. CANZANO: And that was just distributed to the
11 Commissioners, the unredacted version.

12 CHAIRMAN CLARK: And Mr. Melson wants the record to be
13 clear that there is no portion now of Mr. Trimble's Direct
14 Testimony that is confidential.

15 MR. FUHR: That is correct, Chairman Clark.

16 CHAIRMAN CLARK: Okay. I think all the testimony is
17 in and the exhibits are identified.

18 MR. FUHR: I believe you are right.
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GTE FLORIDA INCORPORATED
DIRECT TESTIMONY OF BERT I. STEELE
DOCKET NO. 960980-TP

Q. PLEASE STATE YOUR FULL NAME AND BUSINESS ADDRESS.

A. My name is Bert I. Steele. My business address is 600 Hidden Ridge Drive, Irving, Texas 75038.

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

A. I am employed by GTE Telephone Operations as Manager - Pricing and Tariff Support. In this capacity I have responsibility for supporting incremental cost models and their application to support the pricing of network services for all of the GTE Telephone Operations including GTE Florida Incorporated ("GTEFL" or "Company").

Q. PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND AND BUSINESS EXPERIENCE.

A. I have a Bachelor of Science Degree in Mathematics from Gannon University and a Master of Engineering Degree in Engineering Science from Pennsylvania State University. I joined GTE in 1972 with General Telephone Company of Pennsylvania. During the course of my career with GTE, I have held various valuation engineering, marketing, product management, and regulatory positions throughout GTE Telephone Operations including

1 GTE Hawaiian Tel. I assumed my present position in January of
2 1994.

3
4 Approximately fourteen of my twenty-four years with GTE have been
5 in the area of developing incremental costs for pricing decisions. I
6 have taken a number of incremental cost and pricing courses from
7 AT&T, Bellcore, United States Telephone Association ("USTA"), GTE
8 and the University of Chicago. For seven years I have been an active
9 participant of the USTA Economic Cost Analysis Subcommittee and
10 the USTA Training/Education Work Group responsible for promoting
11 awareness, understanding and proper application of economic
12 principles. At present, I am the chairman of the USTA Economic
13 Analysis Training/Education Work Group.

14

15 **Q. HAVE YOU TESTIFIED BEFORE THIS OR ANY OTHER STATE**
16 **REGULATORY COMMISSION?**

17 **A.** I have testified on behalf of GTE's telephone operating companies as
18 an expert witness in the area of incremental costing before five state
19 public utility commissions: California, Pennsylvania, Oklahoma,
20 Wisconsin and Illinois.

21

22 **Q. WHAT IS THE PURPOSE OF YOUR PARTICIPATION IN THIS**
23 **PROCEEDING?**

24 **A.** I am not introducing any substantive prefiled testimony at this time.
25 My reason for participating in these consolidated dockets is to answer

1 specific questions about the cost studies sponsored by GTE witness
2 Trimble. Because of the volume of the cost studies, it is more
3 efficient to make available a separate witness with detailed
4 knowledge of the studies, in the event the Commission, MCI or AT&T
5 have questions that would reach beyond the costing principles and
6 methodologies.

7

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

9 **A. Yes. It does.**

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GTE FLORIDA INCORPORATED**REBUTTAL TESTIMONY OF BERT I. STEELE****DOCKET NO. 960847-TP**

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5 **Q. PLEASE STATE YOUR FULL NAME AND BUSINESS ADDRESS.**

6 A. My name is Bert I. Steele. My business address is 600 Hidden Ridge
7 Drive, Irving, Texas 75038.

8

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

10 A. I am employed by GTE Telephone Operations as Manager - Pricing
11 and Tariff Support. In this capacity I have responsibility for
12 supporting incremental cost models and their application to support
13 the pricing of network services for all of the GTE Telephone
14 Operations including GTE Florida Incorporated ("GTEFL" or
15 "Company").

16

17 **Q. PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND AND
18 BUSINESS EXPERIENCE.**

19 A. I have a Bachelor of Science Degree in Mathematics from Gannon
20 University and a Master of Engineering Degree in Engineering
21 Science from Pennsylvania State University. I joined GTE in 1972
22 with General Telephone Company of Pennsylvania. During the
23 course of my career with GTE, I have held various valuation
24 engineering, marketing, product management, and regulatory
25 positions throughout GTE Telephone Operations including

1 GTE Hawaiian Tel. I assumed my present position in January of
2 1994.

3
4 Approximately fourteen of my twenty-four years with GTE have been
5 in the area of developing incremental costs for pricing decisions. I
6 have taken a number of incremental cost and pricing courses from
7 AT&T, Bellcore, United States Telephone Association ("USTA"), GTE
8 and the University of Chicago. For seven years I have been an active
9 participant of the USTA Economic Cost Analysis Subcommittee and
10 the USTA Training/Education Work Group responsible for promoting
11 awareness, understanding and proper application of economic
12 principles. At present, I am the chairman of the USTA Economic
13 Analysis Training/Education Work Group.

14
15 **Q. HAVE YOU TESTIFIED BEFORE THIS OR ANY OTHER STATE**
16 **REGULATORY COMMISSION?**

17 **A.** I have testified on behalf of GTE's telephone operating companies as
18 an expert witness in the area of incremental costing before five state
19 public utility commissions: California, Pennsylvania, Oklahoma,
20 Wisconsin and Illinois.

21
22 **Q. WHAT IS THE PURPOSE OF YOUR REBUTTAL TESTIMONY?**

23 **A.** My reason for participating in these consolidated dockets is to answer
24 specific questions about the cost studies sponsored by GTE witness
25 Trimble. Because of the volume of the cost studies, it is more

1 efficient to make available a separate witness with detailed
2 knowledge of the studies, in the event the Commission, MCI or AT&T
3 have questions that would reach beyond the costing principles and
4 methodologies.

5
6 The cost study and associated workpapers are intended to be an
7 exhibit to my testimony (designated as BIS-1) and moved into
8 evidence at the hearing. However, because of the volume of this
9 material and its highly sensitive and proprietary nature, it will be
10 provided separately.

11

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

13 **A. Yes. It does.**

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1 MR. FUHR: Chairman Clark, I would request if we could
2 or ask if the summary presentation by these gentlemen could be
3 extended to a cumulative total of ten minutes. I think
4 Mr. Trimble may deliver the whole presentation. That was the
5 last game plan I had heard. But, together, they would take no
6 more than ten minutes, if that's acceptable.

7 CHAIRMAN CLARK: Without objection. Go ahead,
8 Mr. Trimble.

9 WITNESS TRIMBLE: Thank you. Good afternoon. The
10 purpose of my testimony is basically three-fold. First was to
11 present GTE's forward-looking TELRIC cost studies and the
12 development processes behind those. Mr. Steele will be
13 assuming as adopted those procedures and he will probably talk
14 about those a little bit later. I also was responsible for
15 developing GTE's recommended unbundled network element prices
16 as proposed in this proceeding. The methodology we employed
17 was to take the TELRICs and add to them a reasonable
18 contribution of common costs, which is consistent at this point
19 in time with the FCC's First Report.

20 In addition, my testimony also addressed the
21 inappropriateness of the FCC's proxy rates. Now if we go
22 through each of these three areas in a little bit more detail
23 and we look at GTE's forward-looking TELRIC studies, they
24 exhibit several attributes that companies, commissions and I
25 believe commission staffs would find appropriate for studies to

1 be involved and employed in the development of unbundled loop
2 rates.

3 From GTE's standpoint, there are three very critical
4 pieces to these studies and the first piece is that they are
5 actually studies of costs that the Company will actually incur
6 in the future. They are not costs of a hypothetical company.
7 They are the real cost estimates for GTE.

8 In addition, there's been several concerns that the
9 cost studies may include retailing expenses for these wholesale
10 elements. They include no retailing expenses. They are also
11 very reflective of efficient operations.

12 If you take all this together, to a large degree GTE's
13 TELRIC studies are conservative. We have overlaid nothing in
14 them to reflect increased risks in the marketplace. And I
15 believe Mr. Steele will have additional information to talk on
16 this, on that fact.

17 In terms of the pricing side of my testimony, as I've
18 already stated, the procedure was to take those TELRICs as
19 developed by Mr. Steele and add a reasonable allocation of
20 joint and common costs to them with the additional constraint
21 that they should never exceed the stand- alone cost for that
22 network element.

23 If we go through each of the items specifically, we
24 would find loops, our loop prices were developed based on our
25 estimates of stand-alone costs. This procedure is totally

1 consistent with the economic presentation that was presented
2 under Dr. Sibley.

3 For most of the other items, for example, the NID, we
4 priced at TELRIC plus 10% and we did the same thing for port.
5 For tandem switching, we should say for tandem switching,
6 dedicated common transport and SS7 type services, we elected to
7 put forth FCC's proxy rates, which were GTOC 1 interstate
8 rates.

9 For SPNP or interim number portability, that was
10 priced at TELRIC plus 10%, a very minimal amount. And physical
11 collocation, we have provided cost estimates for all of the
12 elements that we believe the ALECs would be interested in.

13 Now on the loop side, to make us, to validate our
14 assumptions, we also employed BCM2 in terms of running it with
15 its defaults values and also with Company specific inputs to
16 see if the cost characteristics or the cost numbers that result
17 from that model were significantly different from our cost
18 estimates and/or the price we proposed in this proceeding.

19 Now as we go through all of these activities and the
20 costing side and the pricing side, it seems that one of the
21 biggest issues is you have developed TELRICs, you're setting
22 your price at TELRICs plus some unknown number. The unknown
23 number, in our case, which we do know, the unknown number X is
24 a highly controversial topic in this proceeding. The X we have
25 created is directly related to our estimates of the Company's

1 total common costs. And I believe the presentation material in
2 my testimony, plus also in Late-Filed Deposition Exhibit No.
3 13, I believe, provided two methodologies that the Company
4 employed to estimate those numbers, which range in the 380 to
5 450 million dollar area. They are not small. They are quite
6 significant.

7 The first methodology was to take 1995 revenues and
8 basically subtract from them the sum of the TSLRICs and equate
9 those to common costs. That results at this point in time with
10 an estimate in the approximately 56% range for common costs as
11 a percent of direct costs. The second methodology which was in
12 my late-filed deposition exhibit, looked at USOA accounts,
13 specifically those accounts that are excluded from our TSLRIC
14 studies and/or TELRIC studies. And the results looking at
15 those were that forward-looking common costs were approximately
16 47% of direct costs.

17 The issue here is not that those two numbers are
18 exact. The real issue is that they are large. GTE's common
19 costs are significant. And we truly believe, as any rational
20 company should believe, that all customers, whether they be end
21 user customers or ALECs, should contribute to those common
22 costs and recovery of those common costs.

23 Now, last of all, the last piece of the testimony had
24 to do with the use of the FCC's proxy rates, which I understand
25 as of yesterday may be somewhat of a moot point. But I think

1 it's very interesting to take the illustration of the FCC's
2 proxy rates as to the impact on the Company.

3 One of the methodologies people can use to evaluate
4 the appropriateness of an overall pricing structure is to take
5 that pricing structure and look at it from the standpoint if
6 all services were purchased from it. So let me walk through
7 for the FCC's proxies what the impact on revenues would be for
8 the Company.

9 This assumes that ALECs employ the FCC's proxy rates,
10 purchase unbundled loops and all switching from GTE. In
11 essence, GTE is providing all the services but at wholesale
12 rates. We're still installing all the lines, we're still doing
13 all the switching.

14 If we look at Florida -- and I'll give you some
15 numbers here very quickly -- which has approximately 780
16 minutes of use per line, which we can multiply out by the FCC's
17 proxy rates of four-tenths of a cent to see what the switching
18 component would be, we come up with the FCC's proxy rate for
19 switching would be \$3.15 per line.

20 The FCC has also recently introduced a port rate,
21 which could be charged, at \$2 per line. If we take the loop
22 proxy rate for Florida, which was 13.68 and add that to the
23 other two, we come to a total FCC proxy rate of \$18.83 per
24 line. For that \$18.83, you get loops, switching, vertical
25 services, in essence, GTE's full product line.

1 Now if we take that 18.83, say that's a monthly rate,
2 multiply it by the number of switched lines the Company has,
3 which is approximately 1.9 million, you come up with the FCC's
4 proxy rates would generate total revenues for the Company of
5 436 million dollars.

6 For those same items, loops, switching and vertical
7 services, GTE's 1995 revenues were 950 million dollars. The
8 difference between the proxy and current revenues still with
9 GTE providing all the services is 514 million dollars.

10 Employment of the proxies would in essence mean a 54%
11 reduction in GTE's total revenues for those services. One
12 could say 54% reduction for something that is being resold, in
13 essence, seems a wee bit much. GTE agrees that is a wee bit
14 much. Even the FCC's proposed rates for resale maxed out at
15 25%.

16 Now that demonstrated to me, and I think it should to
17 most people, that the proxy rates did very little other than
18 subsidize entry because GTE, no matter what anybody says, is a
19 reasonably efficient Company. Fifty-four percent reduction
20 just doesn't make sense.

21 CHAIRMAN CLARK: Mr. Trimble --

22 WITNESS TRIMBLE: Now if we look at --

23 CHAIRMAN CLARK: Mr. Trimble, you're already beyond
24 ten minutes.

25 WITNESS TRIMBLE: I'm sorry.

1 CHAIRMAN CLARK: You need to tie it up.

2 WITNESS TRIMBLE: I'll have just one more minute,
3 which goes if we take that as an indication, I believe AT&T and
4 MCI are proposing rates that are even 40% lower than the FCC
5 proxy rates. And that's pretty much the summary.

6 MR. FUHR: Chairman Clark, at this time I would tender
7 Mr. Steele and Mr. Trimble for cross examination.

8 CHAIRMAN CLARK: Mr. Melson.

9 MR. MELSON: I would like to defer to AT&T. I think
10 it would be more efficient.

11 CHAIRMAN CLARK: Okay. Mr. Lemmer.

12 MR. LEMMER: Good afternoon. Madam Chairman,
13 thank you. I have a procedural question before we begin and I
14 guess I ought to ask it of counsel. Who is going to answer my
15 questions?

16 MR. FUHR: If there are questions that are specific to
17 the underlying analysis that Mr. Steele did, he can answer, but
18 I think Mr. Trimble will take the lead on it and in the event
19 there is any question that needs to be handed off, if you were,
20 Mr. Steele would answer it. Is that right, Mr. Trimble?

21 WITNESS TRIMBLE: That is correct.

22 MR. LEMMER: Thank you.

23 CROSS EXAMINATION

24 BY MR. LEMMER:

25 Q Let me ask you first to turn to page, Mr. Steele, turn

1 to page 8 of your Direct Testimony. Actually it might be more
2 efficient if you will turn back to your Exhibit DBT-3, please.

3 A (By Witness Trimble) I'm there. I'm sorry. I missed
4 your name.

5 Q Tom Lemmer.

6 A Thank you, Tom.

7 Q Now, my understanding is that this exhibit, and I'm
8 looking now at the third page of this exhibit, lists a series
9 of charges for nonrecurring services; is that correct?

10 A That is correct.

11 Q And can you tell me how these services that are
12 described on this page line up with your current tariffed
13 services for nonrecurring charges?

14 A I cannot tell you specifically. For retail rates,
15 there are service order and charges and initial and additional.
16 There's also trip charges for installation. I did not
17 specifically match these exactly to the current retail rates.
18 These are matched to the cost characteristics for wholesale
19 services.

20 Q Now the rates that are specified on this third page of
21 your Exhibit DBT-3, are they supported by tab 9 of Exhibit 36,
22 which is tab 9 in the big black book on your table?

23 A Yes, they are.

24 Q Would you go to that tab for me, please.

25 MR. FUHR: I'm sorry; tab what?

1 MR. LEMMER: Tab 36. I'm sorry; tab 9 of Exhibit 36.

2 WITNESS TRIMBLE: Yes.

3 BY MR. LEMMER (Continuing):

4 Q Can you explain to me how tab 9 supports the prices
5 that are shown on Exhibit DBT-3?

6 A (By Witness Trimble) Within tab 9 -- Maybe I should
7 ask, do you have page A-133 Revised?

8 Q No, I do not.

9 A As part -- As part of GTE's October 2nd filing with
10 the Commission, it provided several sheets that were entitled
11 "GTE Wholesale Connection Service Charge Study," which
12 reformatted the first sets of sheet, so you could see the
13 components of each charge.

14 Q Okay. But what I'm asking you is looking at the
15 prices that are on DBT-3, where is the detail support that ties
16 into those prices?

17 A The detailed support, the pieces that make up each of
18 the charges was provided in that October 2nd submission and
19 from the October 2nd submission, you can map into specific
20 pages that show exactly how those charges were created.

21 Q If you turn your attention to tab 9, and there are a
22 series of pages up front in that particular tab. And I'm
23 looking at the very first page. It's A-101; do you see that?

24 A A-101?

25 Q Yes, it's a number down at the bottom of the page,

1 very first page of tab 9.

2 A Yes, A-101.

3 Q Can you explain to me how the numbers that are
4 reflected on this page relate to Exhibit DBT-3?

5 A Well, within, in terms of page 3 of 4 for wholesale
6 charges, wholesale costs?

7 Q That is correct.

8 A The wholesale NRC study starts on page 132, A-132.
9 Within tab 9, we look at the index. Tab 9 consisted of
10 collocation, expanded interconnection, interim number
11 portability, terminating local usage and nonrecurring charges
12 was the last. One of the problems may have been that there was
13 no blank blue sheet that separated each of those topics.

14 Q Now looking at the late-filed deposition exhibit that
15 I've just handed, beginning at page 132 for a number of pages,
16 this is support for the prices that are on the third page of
17 your Exhibit DBT-3?

18 A These pages show how the numbers out of the cost study
19 were put together to create the specific rates.

20 Q Now looking at this, I see numbers but I see no
21 support for the specific numbers. Is this the entire
22 documentation for the study?

23 A That is correct.

24 Q And by "this," I'm referring to this late-filed
25 exhibit; that is the entire documentation?

1 A The late-filed exhibit was used, as I stated, to show
2 how you take what was in tab 9 and map it into the specific
3 charges that are on Page 3 of DBT-3.

4 Q Now the charges on that page of DBT-3, the third page
5 that we've been looking at, are they TELRIC-plus based prices?

6 A No, most of those are at costs.

7 Q And what do you mean by "at costs"?

8 A They're based on the cost estimates for those
9 functions. There was nothing added above those cost estimates.

10 Q So they reflect a TELRIC cost?

11 A I'm not sure what a TELRIC cost is for something that
12 really has no future capital or future technology involved.
13 These are basically labor costs.

14 Q So then what you're telling me is these are simply
15 estimated costs based on the labor that will be expended?

16 A There's also some computer processing involved in some
17 of these.

18 Q And by computer processing, do you mean application of
19 certain software programs?

20 A Yes, I believe that is --

21 Q And were those programs made available?

22 A Made available?

23 Q Were they made available to MCI? AT&T? To the Staff?

24 A Those are internal programs, operation-type programs
25 that facilitate line assignment, dispatch and repair. It's

1 basically running the, what I think everybody terms as the
2 operation support systems internal to GTE.

3 Q And are those software programs proprietary?

4 A I do not know what somebody would consider those. I
5 assume they are proprietary. They are huge systems. Service
6 order entry systems, et cetera.

7 Q If you turn to pages 10 and 11 of your Direct
8 Testimony, which is now Exhibit 49, I believe?

9 A Yes.

10 Q And these pages are discussing the calculations of the
11 nonrecurring charges that we have been talking about; is that
12 correct?

13 A That is correct.

14 Q Now looking at the top of page 10, lines 1 and 2, it
15 discusses certain processes including ordering, provisioning,
16 installation, maintenance, repair and billing; do you see that?

17 A Yes, I do.

18 Q Are those the various processes that were studied for
19 purposes of determining the various nonrecurring charges?

20 A I believe that's a correct statement, yes.

21 Q Were historical costs, and by that I mean costs
22 incurred in 1995 or previous, relating to these types of
23 activities used in any fashion to develop your nonrecurring
24 charges.

25 A No.

1 Q And why not?

2 A The study revolved around estimating the work
3 activities required. If you consider current labor rates as
4 embedded costs, then you could say they were embedded. These
5 were, in essence, estimates of time to do functions priced out
6 at current labor rates.

7 Q And these functions that you evaluated, did you
8 evaluate them or assess them to be different than the functions
9 you're currently providing say for ordering?

10 A They were assessed to be different in terms of work
11 activities. As we all know, we currently do not process these
12 orders. These were -- The time estimates were truly estimates
13 based on professional knowledge within the Company.

14 Q An example, in ordering, was there any consideration
15 taken in estimating the time that the intake regarding the
16 delivery of wholesale will be different than it is when you're
17 dealing with retail?

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

19 Q So are you telling me that that was considered in
20 developing?

21 A That was considered, based on estimates of the
22 individuals responsible for the work functions, they developed
23 their understanding of how our processes would work in the
24 future and created time estimates for those.

25 Q And can you tell me what those assumptions were?

1 A I believe the assumptions for the time estimates are
2 listed in the cost study itself for each of the activities in
3 tab 9, starting at page 132 or 133. It will show you the
4 specific function and the estimated amount of time that those
5 folks responsible for this activity believe each one will take.

6 Q Now looking at these pages, I see various what I will
7 call titles, such as "Service Order Entry Change Order." Is
8 there any definition provided in your materials as to what that
9 means?

10 A No, there was not. A lot of the definitions I believe
11 are standard definitions you'd find in our retail tariffs.

12 Q So then you're relying on your tariff descriptions for
13 the development of the time estimate?

14 A I believe the analysts assumed that for many of these
15 activities it would be understood within the industry what they
16 meant.

17 Q Even though you are now moving into unchartered waters
18 by moving into a wholesale environment, the assumption was made
19 there would be no change; is that correct?

20 A No, I'm saying the assumption is that the verbiage
21 used for the descriptive verbiage is relatively standard
22 verbiage in the retail type tariffs and that the ALECs would
23 understand that type of verbiage.

24 Q Okay. Let's shift subject matters now and talk about
25 the TELRIC methodology. If you would turn to -- Actually I

1 think it's appended to your testimony. It's the description of
2 the TELRIC methodology, the written description that's appended
3 as attachment to your testimony.

4 A This is attachment DBT-1?

5 Q That's correct.

6 A What I will do for these series of questions is
7 basically turn them over to Mr. Steele, if that's appropriate,
8 if that's okay.

9 Q Whoever can answer the questions is fine with me.

10 A Okay.

11 Q The attachment to the exhibit that states "GTE
12 Telephone Operations TELRIC/TSLRIC Methodology," am I to
13 interpret this as a complete definition of the methodology that
14 was employed in developing TELRIC costs?

15 A (By Witness Steele) Yes, it is. And this is also
16 located in Exhibit No. 36 with the appropriate appendixes
17 attached, which provide a complete description of the models as
18 well as the network elements that are attached as Exhibit 2, as
19 well.

20 Q Now let me ask you to turn over to tab 4 of Exhibit 36
21 and what I would like to do is turn to, turn into the third
22 page of that exhibit. It bears a number A-3 at the bottom
23 right hand corner.

24 A I have A-3.

25 Q And just so I understand this, is it fair to say that

1 looking at this page, what is occurring is that there is a
2 dollar amount associated with equipment investment and then
3 there are certain costs such as material loadings that are
4 added on to that investment, then all those costs are totaled
5 and then added to that are annual cost factors; is that a fair
6 description?

7 A That's close. At the top is also the installation
8 labor and the items that you referred to as annual expenses are
9 not really added to, they're a function of. So that what you
10 see on the lines 13 and 14 are the annual costs and monthly
11 costs respectively.

12 Q Now isn't it true that if you look through this tab
13 and any tab that's found in Exhibit 36 as well as the five
14 volumes that were introduced as Exhibit 51, that there is no
15 information relating to where the equipment investment comes
16 from?

17 A That is incorrect. In the Exhibit 51, supplemental
18 materials, under this same tab, are all the inputs and outputs
19 for each model that was used to derive these numbers.

20 Q Well, let's turn to the first page of that and the
21 first page was included in the confidential binder that we
22 distributed at the beginning of this.

23 MR. LEMMER: Madam Chairman, if I could have that page
24 identified and marked.

25 CHAIRMAN CLARK: This?

1 MR. HATCH: Yes, ma'am.

2 MR. LEMMER: It's actually the second page that was
3 included in your confidential volume.

4 CHAIRMAN CLARK: I have three pages all together, one
5 is unmarked and two are marked 46 and 47.

6 MR. LEMMER: It is the last two, right at the top it
7 says "COSTMOD System" at the very top and there should be two
8 pages.

9 CHAIRMAN CLARK: All right. You want me to label this
10 as a confidential exhibit, though, the three pages?

11 MR. LEMMER: That is correct.

12 CHAIRMAN CLARK: All right. It will be Exhibit 52.
13 And give me a title for it.

14 MR. LEMMER: The title would be "COSTMOD System Loop
15 Technology Module."

16 CHAIRMAN CLARK: Okay.

17 (Exhibit No. 52 marked for identification.)

18 BY MR LEMMER (Continuing):

19 Q Now, Mr. Steele, is this page that was just marked as
20 Exhibit 52 an example of the support for the equipment
21 investment that you were just talking about?

22 A (By Witness Steele) Yes. This is both an output and
23 input report of the loop technology module within the COSTMOD
24 system. I understand that this was entered as one page. I
25 have two pages. I assume you're talking about the first page

1 and it is specifically for the low density area within our
2 operations year for a loop length of 1,000 feet or one
3 kilofoot.

4 Q Now the information that's on this first page, and
5 let's start at the top where it talks about "Primary Loop
6 Characteristics," is there any -- do you have any data in your
7 study to support the average office size?

8 A I do not believe that in either one of the exhibits,
9 36 or 51, that there is a calculation that shows the average
10 office size for the three density categories, low, medium and
11 high.

12 Q In the second category that's on that page, "Secondary
13 Loop Characteristics," is there any information in either of
14 the exhibits that support that? And by the exhibit, I'm
15 referring to Exhibits 36 and 51.

16 A The characteristics of distribution of plant is based
17 on, for aerial, underground and buried is based on GTE's
18 current information. It was not contained, to my knowledge,
19 within this proceeding.

20 Q And then the third category, the "Outside Plant
21 Distribution," my question is the same: Is there any included
22 information regarding those numbers?

23 A This one I would probably have to ask counsel on. I
24 have been informed that the models were made available in a
25 redacted version to both parties and the information here is

1 the sizing algorithms that Mr. Wood referred to as the tree
2 architecture that's used to design loop characteristics. They
3 are listed here as how they're determined by the model based on
4 length, size, aerial, underground and buried. Those are what
5 is determined by algorithms of the model, similar to what
6 Mr. Wood was talking about earlier.

7 Q Now looking at these three top items, the primary loop
8 characteristics, secondary loop characteristics, outside plant
9 distribution, I think you referred to them as inputs; is that
10 correct?

11 A The items at the top of loop length are inputs and the
12 distribution of plant between aerial, underground and buried
13 are inputs. The outside plant distribution is not an input as
14 derived based on the tree architecture that's inherent in the
15 code of the model.

16 Q Now this data, how was this data developed?

17 A The data at the top for average office size represents
18 the average office size that we have in this state for all
19 central offices. The 1 kilofoot is not developed at all. It's
20 simply an input where the analyst says that I want to analyze
21 costs at 1, 2, 3, et cetera, kilofeet.

22 The percent aerial, buried and underground is based on
23 current data in GTE's continuing property records. The
24 algorithms that are identified and used for outside plant
25 distribution which follow that are based on standard

1 engineering design as provided to GTE, it's provided by model
2 development people by GTE's operations personnel. The state
3 specific labor rates which follow that are provided by GTE's
4 finance, which are the direct labor rates with each labor
5 categories that you see there.

6 Q Now looking back up at the primary loop
7 characteristics, and we're talking about average size, is that
8 average based upon averaging -- Let me rephrase the question.
9 Is that average a result of or reflect the entire universe
10 within the State of Florida ?

11 A That is the entire universe, correct.

12 Q So it is not based on a sample?

13 A It is not a sample.

14 Q If you look further down that page at the bottom, the
15 bottom six columns, and there are various numbers that appear
16 in these columns; is it fair to say that these numbers result
17 from the application of a software program to the input data?

18 A It is fair to say that for the last three columns.
19 The first column is just an identification and the second is
20 identification of uniform system of accounts. The last three
21 columns entitled "Material investment, labor investment and
22 total investment," which is the sum of those two, are derived
23 by the model.

24 Q And when you say "the model," you're talking about
25 what's known as the COSTMOD model?

1 A Specifically for the loop technology module within
2 that system, which is what this exhibit is displaying.

3 Q Now if you turn back to the third page of tab 4 of
4 Exhibit 36, Page A-3, we just finished talking about the line
5 where it says "Equipment Investment." Would you agree that
6 based upon the way that the numbers are generated on this page,
7 that developing an appropriate cost for equipment is critical?

8 A I would certainly agree that it's a necessary input
9 price to determine costs.

10 Q Well, would you agree that every cost that's developed
11 on the rest of the page is based on the amount of dollars
12 associated with equipment?

13 A Not just equipment, but also the associated labor that
14 goes with that.

15 Q But isn't it a fact at the beginning of this process,
16 which is what I will call a cumulative process, begins with the
17 equipment value?

18 A Yes, it does.

19 Q And is there any way --

20 A As well as the labor. The labor algorithms in the
21 model for splicing and placing, trenching, et cetera, are
22 separate algorithms based on GTE standards. And it's not just
23 the material price that's important. It's also the labor,
24 particularly in distribution plant.

25 Q Let's talk about the labor, where is the support for

1 the labor?

2 A Labor, as I said, the state specific labor rates are
3 provided by GTE's finance personnel.

4 Q Now I see the numbers that you have, the page that we
5 were looking at previously, which was then labeled Exhibit 52,
6 but my question is where is the support for those labor
7 dollars?

8 A The support for that labor dollars for splicing and
9 placing of cable facilities and the associated pair gain
10 devices as well as poles and conduits are provided by our
11 operations personnel. It's contained within our operations
12 systems and its practices. That's the source of that
13 information.

14 Q And documentation reflecting the source of that
15 information is not contained in the study; is that correct?

16 A No, you asked me that question earlier and I told you
17 it was not, that that's part of our operations standards.
18 There's a system or a series of pars that support those
19 standards. In our operational procedures, you can identify by
20 cable size the splicing time, the placing time, et cetera. And
21 that's what's incorporated in this model.

22 Q So you have time and motion studies among other things
23 that might support a labor rate; is that correct?

24 A I do not have time and labor rates to support -- or
25 time and motion studies to support a labor rate. A labor rate,

1 again, is provided by finance. I have specific data to support
2 the time, the work time requirements for splicing and placing.

3 Q Okay. Let's look at engineering and installation,
4 which is the third column on this page that we're looking at in
5 tab 4. And can you tell me where those numbers come from? And
6 by that I mean can you tell me where in the study those numbers
7 are derived?

8 A What page are you on, again, please?

9 Q I am on the third page of tab 4 of Exhibit 36.

10 A Yes. That information is derived from now what's
11 referred to as Exhibit 52, under the column labeled "Labor
12 Investment" in the bottom.

13 Q And is it a correct assumption on my part that the
14 costs for labor investment were derived by information received
15 from your accounting department; is that correct?

16 A I'm sorry; I didn't hear the question.

17 Q The labor investment that's identified there I assume
18 is the result of receiving information from your accounting
19 department; is that correct?

20 A That is not correct.

21 Q Okay. Where do you receive it from?

22 A The labor rates which are a component of that are
23 received from the finance department. Those are labor rates
24 that you see on Exhibit 52 listed under "State Specific Labor
25 Rates." The algorithms for placing and splicing the cables as

1 well as placing and testing facilities in the network are in
2 the model and are provided by GTE's operations personnel. The
3 result of those labor rates and those associated engineering
4 standards that I just identified are what derive the labor
5 investment that's labeled at the bottom. That labor investment
6 is carried over in your example to A-3.

7 Q Now, the fourth column, which is engineering,
8 furnishing and installing loading, is that developed in
9 generally the same way as we just discussed regarding
10 engineering and installation?

11 A This particular exhibit is a generic cost summary tool
12 that is used for analysis of all of our costs and there are no
13 specific items identified in that line item. That is used
14 primarily for central office equipment and the EF&I stands for
15 equipment, furnished and installed. The items that we're
16 talking about here are under line No. 3, engineering and
17 installation, which are derived from Exhibit 52.

18 Q Let's move down to the next tier of costs here, where
19 we're talking about the annual operating expenses, which
20 include depreciation, return, composite income tax,
21 maintenance, repair, customer operations, ad valorem tax and a
22 gross receipts tax; do you see those columns?

23 A Yes, I do.

24 Q And can you tell me where in your study the derivation
25 of the various numbers are derived?

1 A Yes. It's in what I refer to as Late-Filed Exhibit
2 No. 1.

3 Q What does that exhibit show?

4 A It provides a response to your question, which is the
5 derivation of each one of those items on lines 6 through 12.

6 Q And does that exhibit contain supporting
7 documentation?

8 A I'm sorry; I didn't hear the question.

9 Q Does take exhibit contain supporting documentation
10 that shows precisely where the numbers came from?

11 A Yes, it does.

12 Q Now as I understand it, these numbers that we're
13 looking at on this page, as well as all of the attached pages,
14 are the result of the application of a cost model; is that
15 correct?

16 A The ones that you are referring to are specifically
17 from that one module, the COSTMOD system, which is identified
18 on Exhibit 52, "Loop Technology Module."

19 Q When we move out of the loop technology module, the
20 COSTMOD system has other modules embedded in it for the
21 particular type of element; is that correct?

22 A Yes, and all of those are listed in that one document
23 that we were referring to previously, prefaced under tab 1.

24 Q Now is the COSTMOD a proprietary software program for
25 GTE?

1 A Yes, it is an intellectual property of GTE. There is
2 another module that was used, which is not owned by GTE, which
3 is the switching cost information system; we receive that model
4 under license agreement with Bellcore.

5 Q Regarding either the COSTMOD or the SCIS Model, has
6 MCI, AT&T or the Staff been provided those models in this
7 procedure?

8 A I am not aware.

9 Q So given the lack of those models, let's assume that
10 those models were not provided, someone could not audit how the
11 results of your study were derived; could they?

12 A Under that assumption, you would have to rely on the
13 information that was filed in this package. Again, I do not
14 know if they have been made available or not. I was advised by
15 legal counsel that they were, but I have not confirmed that
16 myself.

17 Q Now in designing the investment value or the equipment
18 value, which was the first line on that page we've been looking
19 at, what assumptions were made about the -- what I'll call the
20 architecture that was going to be used? How was the
21 architecture developed?

22 A Those are documented in the tab 1, but I will
23 summarize them for you. The costs that you're referring to on
24 A-3 represent copper, a technology for loops that are less than
25 12 kilofeet in length and it uses a pair gain technology, which

1 is fiber facilities from the central office to the pair gain
2 device and copper facilities from the pair gain device to the
3 customer's location.

4 Q And in that process, how were costs such as central
5 office equipment or remote terminals factored in? How were
6 they brought into the process?

7 A In the pair gain application, the pair gain device is
8 commonly referred to in certain circles as switching equipment
9 or a concentrator. It's incorporated, as I said earlier, for
10 loop lengths that are longer in length. There are no central
11 office equipment such as a line termination or switching calls
12 and minutes or features included in that. Those are identified
13 in other network elements.

14 Q What was the source of the price for each of these
15 items of equipment that was used in this model?

16 A Net contract prices that GTE has with its vendors.

17 Q So those would be current contracts in existence
18 today?

19 A Yes, they are.

20 Q Was there any analysis done to look out, say, three
21 years, five years as to what the prices might be?

22 A Yes. I can't name them specifically, but many of the
23 contracts that we have are not for one calendar year. I think
24 that several of the cable contracts are three years. I believe
25 the NorTel contract is two or three years. I would have to

1 verify that. They are not one year in duration.

2 Q Were any of those contracts provided in the supporting
3 data for this study?

4 A I am not aware that they were asked, nor am I aware
5 that they were provided.

6 Q Have you made any attempts to verify the accuracy of
7 the output of the COSTMOD system?

8 A Most of the accuracy was in terms of the algorithms
9 that are used in the model to make sure that they are in line
10 with our standards, the accuracy of the splicing time and
11 placing time and engineering set up time were all validated.

12 In the case of the COSTMOD system for switching, we
13 validated that and the outputs are in total or accurate within
14 several percentage points.

15 I don't -- I didn't personally validate the SCIS model
16 at prices prior to discounts. That's validated by Bellcore and
17 the documentation that I received is that it is accurate within
18 2%.

19 On the fiber optic model, which is used for
20 interoffice transport for direct trunk transport as well as
21 common transport, that information is validated by analyzing
22 specific fiber systems that GTE employs. I don't remember the
23 precise number but it's well under 2%.

24 Q In designing the architecture that was used to develop
25 the equipment costs, were there any assumptions made about

1 changes in the future to reflect what might be future changes
2 that would come about because of current technology?

3 A The only change -- Let me back up a little bit. Yes,
4 there are changes in terms of what technologies are used, which
5 are relevant for forward-looking analysis. For example, all of
6 the interoffice transport facilities are based on fiber
7 technology. All the switching facilities are based on digital
8 technology. In the case of the loop architecture, all of those
9 are based on a forward-looking technology, which is to use used
10 copper facilities for loops less than 12 kilofeet and also pair
11 gain technology for loops beyond 12 kilofeet.

12 There was one other change in that on loop facilities,
13 based on input provided to me from our open market transition
14 team, the nonintegrated technology was used for the longer
15 loops, consistent with the requirement to use D4 channel banks
16 in a nonintegrated unbundled loop environment.

17 Those are pretty much the changes that were required
18 to be consistent with estimates of our forward-looking costs as
19 well as be consistent with the contracts that we have with
20 vendors.

21 Q Does GTE currently offer broad band type services to
22 its customers?

23 A I did not do any analysis on broad band type services.
24 I am not representing any materials in this particular
25 proceeding on that. If you're referring to high capacity

1 services like DS1 and DS3, those high bandwidth services, yes,
2 I've done analysis in this proceeding on those and they are
3 contained within the filing package. In each case those were
4 analyzed based on fiber technology.

5 Q So your answer was that that type of technology which
6 I referred to as broad band was included in your study?

7 A I think you have to be more specific what you're
8 referring to relative to broad band. If you're talking about
9 high capacity, digital services, such as I gave you two
10 examples, DS1 and DS3, they are provided within this package.
11 They are required for entrance facilities, for example. And,
12 as I said, I used fiber technology, which is appropriate
13 forward-looking technology in analyzing those costs.

14 Q How about technology appropriate to providing video;
15 is that included?

16 A There is no analysis contained here on video.

17 Q Does that mean it was included or excluded from the
18 study?

19 A I did not do any specific analysis on video, although
20 there are certain technologies in here that could be used for
21 video application. My analysis was specifically associated
22 with the network elements that were identified by Mr. Trimble.

23 Q Now if you would turn to the very first page of tab 4
24 of Exhibit 36; do you have that page?

25 A Yes, I do.

1 Q And directing your attention to the bottom grouping of
2 numbers and descriptions, and I'm looking specifically at the
3 utilization factor that's identified in the very last line; do
4 you see that?

5 A Yes, I do.

6 Q And what is that, please?

7 A If you'll refer to your exhibit -- excuse me -- our
8 Exhibit 52, you'll see that the output report of the COSTMOD
9 system loop technology module has a column labeled at the
10 bottom "Utilization Factor." And that 70% is what these costs
11 are analyzed with, with the exception of pair gain technology,
12 which was analyzed at 90%.

13 Q And there was a 55% factor that was also used; wasn't
14 there?

15 A Yes. The 55% represents GTE's forward-looking fill
16 factor, which is consistent with what's identified in the FCC's
17 First Report and Order in paragraph 682, indicating that actual
18 forward-looking fill factor should be used to determine the
19 TELRICS and that's what that 55% represents.

20 Q And can you point me to anything in Exhibits 36 or 55
21 that supports that 55%?

22 A There is no specific materials contained in that tab
23 that supports the 55%. I will be glad to answer about where
24 that number was derived and what our actual fill factors and
25 what process I went through to determine the 55% to be

1 relevant.

2 Q In determining some of the annual cost factors, is it
3 correct that there was a cost of money factor used?

4 A Cost of what?

5 Q Cost of money factor, cost of capital.

6 A Oh, yes.

7 Q And I don't know if that's a proprietary number or
8 not. If it's not proprietary, can you tell me what you used?

9 A Yes, it's based on GTE's current capital structure in
10 the midpoint range for our price cap. I can look that up for
11 you. It's based on a return on equity of 12.2% with a
12 composite cost of capital of 10.14, composite rate of return,
13 if you will, of 10.4 and has not been adjusted for the types of
14 risks that the Company feels are appropriate as indicated in
15 the First Report and Order.

16 CHAIRMAN CLARK: Mr. Lemmer, how much more do you
17 have?

18 MR. LEMMER: Maybe about 20 minutes.

19 CHAIRMAN CLARK: All right. We're going to go ahead
20 and take a break right now and switch out court reporters.
21 We'll come back at quarter after 3:00.

22 (Transcript follows in sequence in Volume 17.)

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