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BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

SPECIAL PROJECT
NO. 980000A-SP

In re: Undocketed Special)
Project No. 980000A-SP, Fair)
and Reasonable Residential Basic)
Local Telecommunications Rates.)

DAY 1
AFTERNOON SESSION

IN RE: Staff Workshop
CONDUCTED BY: Anne Marsh
DATE: Thursday, October 8, 1998
TIME: Commenced at 1:30 p.m.
Adjourned at 4:35 p.m.
PLACE: Betty Easley Conference Center
4075 Esplanade Way
Room 148
Tallahassee, Florida
REPORTED BY: RAY D. CONVERY, Court Reporter

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P R E S E N T

COMMISSIONERS PARTICIPATING:

JULIA L. JOHNSON, Commissioner
J. TERRY DEASON, Commissioner
SUSAN F. CLARK, Commissioner
JOE GARCIA, Commissioner
E. LEON JACOBS, JR., Commissioner

STAFF PARTICIPATING:

MELINDA BUTLER, Aide to Commissioner Jacobs
BETH KEATING, PSC Staff, Legal
WILLIAM B. McNULTY, PSC Staff, AFAD
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OTHERS PARTICIPATING:

WILLIAM DUNKEL, Office of the Attorney General
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CHARLES BECK, Office of Public Counsel
MARVIN H. KAHN, Office of Public Counsel
MARK COOPER, AARP
JOSEPH GILLAN, FCCA
BEN OCHSHORN, Florida Legal Services
KENT DICKERSON, Sprint
CHARLES REHWINKEL, Sprint
F. BEN POAG, Sprint
DAONNE CALDWELL, BellSouth
NANCY WHITE, BellSouth
BERT STEELE, GTE
KIM CASWELL, GTE

P R O C E E D I N G S

1
2 MS. MARSH: The next speaker is Dr. Mark Cooper
3 for AARP, and there is a handout up front.

4 DR. COOPER: Good afternoon. Anyone who's read
5 the original -- the preliminary comments filed, or most
6 of the folks I've run into, certainly the industry
7 folks in other states, know that we tend to do fairly
8 long documents, especially in the regulatory
9 proceedings, and they told me to get it on one page,
10 and so I did. I stretched the page a little bit and
11 squeezed it in, but I put it all on one page. And the
12 benefit of trying to get it on one page is you go
13 straight at it. I mean, we're not going to fool
14 around, not that I think I need to sharpen the issues
15 for the Commission. Having sat here this morning and
16 had reports about what has gone on, I think it's pretty
17 clear where the parties stand and what the differences
18 are.

19 One of the ironic things is that as I read some of
20 the opposing testimony and you go through the
21 definitions of all these technical economic concepts,
22 what you discover is everybody is using exactly the
23 same definitions. They may measure things a little bit
24 differently, but they're using exactly the same
25 definitions.

1 There is one fundamental point of difference, one
2 simple point of difference: Is the loop a shared cost
3 or is it not? That is the fundamental issue in this
4 case.

5 AARP believes that its testimony shows that there
6 is no economic, legal, technological, competitive,
7 social or public policy reason to increase basic
8 rates. The reason there is no reason to increase basic
9 rates is that the loop is a shared cost, shared by many
10 services that have always contributed to the recovery
11 of those shared costs. We see no reason to stop
12 recovering costs from services that use a facility from
13 those services. There should be no free rides.

14 Furthermore, we believe that ensuring that each of
15 the growing array of services that will likely be
16 provided over the telecommunications network, ensuring
17 that they pay a fair share of those common costs, those
18 shared costs will result in rates for basic service
19 becoming more and more affordable.

20 Now, in our reply comments, what we will do is we
21 will take a series of statements that have been
22 presented by the telephone companies and flip those
23 statements around, switch the words local and long
24 distance, and you will discover that the sentence makes
25 perfect sense when you switch the services around.

1 That is simply because they are shared services. They
2 share the same facilities. And I will give you a
3 couple of examples of that as I go through my testimony
4 today.

5 For instance, the telephone companies say that
6 access to the network is a separate product whose costs
7 must be recovered separately and should be recovered as
8 local measured service. Now, that premise, that's the
9 essence of it, and it turns on a very, very simple and
10 fundamental assumption, and that's -- in my opinion,
11 it's a metaphysical assumption. That is, that
12 assertion is based on the belief that people are
13 willing to pay to meet a need for access regardless of
14 the use to which the loop is put. Access is a separate
15 service for which people are willing to pay. I don't
16 actually think that's very true. I think it's more
17 correct to say that use determines the value of
18 access. Consumers want actual services, such as local
19 and long distance, not just access. Think about
20 selling an access-only service, a receive-only
21 service. Most people would not buy such a service.
22 They want the use, and those few people who would buy
23 access-only would not pay a great deal for it, it
24 doesn't have a lot of value. It is fundamentally
25 incorrect to separate use from value when it comes to

1 something like the telecommunications network.

2 One example is local measured service. That's not
3 very popular where it is actually sold, even when many
4 people could be shown to have a lower bill, because it
5 severs that natural link between use and value.

6 Vertical services we observe are very strong
7 complements of basic service. That is, if someone
8 sells me basic service, there's almost no chance that a
9 different person is going to sell me call waiting.
10 Actually, technologically, that may be impossible.
11 Speed calling, any of those vertical services, these
12 services come together, they go together naturally.
13 Not everyone buys both, but if you sell basic service,
14 there's almost no chance that a competitor will sell
15 that customer any of the vertical services. That's the
16 economic discussion on the demand side of the equation.

17 Now let's turn to the economic issue on the supply
18 side. The telephone companies say people should pay
19 for the right to place long distance calls over the
20 loop. The way they've said it, and it's really
21 interesting and I'll quote here, "It so happens that
22 setting a consumer up to have basic service offers a
23 variety of capabilities right away." That's a direct
24 quote. That is true. It is just as true to say, "It
25 so happens that setting a consumer up to have long

1 distance service offers a variety of capabilities right
2 away." That's the flip. Both statements are equally
3 true. It actually turns out that it just didn't so
4 happen that local and long distance are sold together.
5 If you go back to the turn of the century when the
6 telecommunications telephone network was being
7 deployed, local and long distance were separate. You
8 had to go downtown to a central office to make a long
9 distance call, and the telephone company at the time
10 looked at it and said, we need to integrate those two
11 services. So it was a conscious decision as a
12 marketing idea, as an economic idea, to bring local and
13 long distance onto the one network and sell them
14 together. This wasn't just an accident. And in fact,
15 at that time, to make loops support long distance, you
16 had to enhance them. You caused costs by actually
17 bringing long distance and local together.

18 So we don't think historically or
19 contemporaneously it makes sense to make this
20 distinction saying the loop is caused by local, and
21 long distance ought to get a free ride, or other
22 services such as data services.

23 We are now in the throes of deploying XDSL high-
24 speed data services. They have a remarkable
25 characteristic. They put a little module on the switch

1 called a D slam, they put a splitter at the house and
2 they use the network in exactly the same way. They
3 want a free ride. So we're going to be selling all
4 these services over that loop, but they don't want to
5 pay for those services.

6 We think the loop is not an output, but the loop
7 is an input to the sale of other services. Vertical
8 services are supported by the loop. The loop is a
9 necessary condition of the supply of these other
10 services, and therefore we think that has a necessary
11 condition on the supply side. They ought to be treated
12 as a shared service.

13 The telecommunications companies say that the
14 Telecommunications Act of 1996 requires subsidies to be
15 explicit and therefore basic rates should rise. We
16 read the 1996 act and we see that the shared nature of
17 the network is repeatedly recognized in the act.
18 Section 254(k) says that basic service should bear no
19 more than a reasonable share of joint and common costs
20 for facilities used by competitive services. The
21 conference report actually says it could bear less than
22 a reasonable share of those joint and common costs that
23 facilities used. That's a public policy reason, that
24 we don't or shouldn't be raising basic service rates.
25 Throughout the act, the fact that the network will

1 deliver advanced and basic service is repeatedly
2 recognized. They're mixed together continually through
3 the act. So the act understood that there would be an
4 array of services. Rate rebalancing, the word does not
5 appear in the act any place.

6 We believe that competition is not sufficiently
7 strong to compel any of these changes. The extent of
8 competition is meager, at best, as was mentioned this
9 morning.

10 So that's our qualitative argument. I think I've
11 hit economic, public policy, technological and
12 competitive reasons. I'm going to get around to the
13 social reasons in a bit, but I've prepared a couple of
14 quantitative slides to try and make some of these
15 points, and these are preliminary. As we learn more
16 about the nature of the data, we will provide final
17 estimates in the final comments.

18 One of the important characteristics of reasonable
19 rates is that once you treat the loop as a shared cost,
20 which we believe you should, even using the company's
21 estimates of costs, which we frequently think are
22 overstated, basic service rates are reasonable by any
23 measure of what is reasonable once you treat the loop
24 as a shared cost. For instance, it's clear from the
25 discussion this morning, and I will tell you these

1 numbers are BellSouth numbers which were made publicly
2 available, and I assumed in this analysis that the loop
3 and the port which we consider to be shared facilities
4 are 65 percent of the cost of basic service. You saw
5 this morning that Sprint's estimate suggests it was 85
6 percent, so these are very conservative estimates.
7 Once you treat the loop as a shared cost, it is clear
8 that basic service covers its total service long-run
9 incremental cost. Sprint's number this morning was
10 3.21, I believe, or approximately that. Clearly, basic
11 service rates cover the 3.21. They are clearly below
12 stand-alone costs.

13 But then the question becomes, well, but if we've
14 got these shared costs, how might we allocate them?
15 And I know that question was asked last week. I've
16 been testifying on this issue for almost 20 years, and
17 way back when, right after divestiture, we actually
18 used to talk about those allocation rules, and maybe
19 we're coming around to it, and there were a couple of
20 rules that we used to talk about for allocating these
21 joint and common costs.

22 One was an equal benefit rule, and you heard Dr.
23 Kahn this morning talk about the benefit of economies
24 of scale and scope. That is, by selling more than one
25 thing and selling larger quantities, it was less

1 expensive. And how do you share those benefits? Well,
2 one rule says you mark each service down
3 proportionately. You give them an equal benefit marked
4 down from the stand-alone cost of the individual
5 service. Another rule would be an equal burden rule.
6 That is, you identify the total service long-run
7 incremental cost of each service and you mark it up
8 sufficiently to cover the total cost of the operation.
9 And, again, conceptually, definitionally, we agree on
10 each of those concepts. What we've disagreed about is
11 the sharing of joint and common costs, defining the
12 loop as a common cost. So that when you take these
13 other sharing rules, equal burden rule, equal benefit
14 rule, you establish a narrower range of rates that are
15 reasonable.

16 You all know that people complain that TSLRIC and
17 stand-alone cost is a ridiculously wide range,
18 tremendous flexibility in that range. You do this
19 second set of rules, equal burden, equal benefit, and
20 lo and behold, basic service falls within that range.
21 We believe that it is clear, on that basis, once you
22 treat the loop as a shared cost, that rates are
23 reasonable.

24 Now, is basic service a low mark-up service?
25 Absolutely. That's the point of public policy. That's

1 why the act said no more than a reasonable share, and
2 the conference report said, and perhaps less than a
3 reasonable share. That's public policy. And AARP, who
4 I represent, believes that is a reasonable and sound
5 policy. So on that basis, we believe that rates are
6 reasonable.

7 Now let's talk about whether rates are fair. And
8 in order to get at that -- now, this is new territory
9 for this Commission. I understand that. I have
10 testified in perhaps 200 proceedings and I have not
11 seen quite as much comparison to other commodities as
12 in this -- almost never see it, occasionally it comes
13 up, but here the Commission has been squarely focused
14 on what's fair. And what we have gotten as a result of
15 that is the suggestion that because the telephone
16 service has become so valuable over the last 15 years,
17 we can raise rates and it would still be fair to raise
18 rates. It turns out that the performance of telephone
19 rates in the last 15 years is only a little bit -- when
20 you look at the household budgets, a little bit better
21 than other things in the household budget.

22 And I prepared an exhibit which compares today's
23 prices for telephone service, which is based on the
24 Florida-specific example, and that Florida-specific
25 example is a little bit misleading. That's the example

1 which showed that rates for -- went from about \$13-plus
2 to a little bit over \$14. I believe that exhibit
3 includes the subscriber line charge projected backwards
4 to the \$13, and so that is a concern to me because the
5 subscriber line charge is paid by consumers. At any
6 rate, we take the \$13 to the \$14 and we're told that
7 it's basically about 60 percent in real terms of what
8 it used to cost.

9 Well, of course, PCs -- everyone knows that if you
10 bought a PC in 1983, you didn't get much and you paid a
11 lot, and today, boy, that PC has come down on quality
12 adjusted terms dramatically. But other things it
13 applies to, TVs, radios, and those are interesting
14 because they're electronics. They've been influenced
15 by the computer and electronic revolution of the last
16 15 years, as has telephone service.

17 Of course, gasoline has come way down in price as
18 well. That has to do with the -- perhaps the ending of
19 a monopoly. So has furniture, shoes, apparel. That's
20 progress. Things have gotten better in the United
21 States. So that this comparison between, well,
22 telephone has gotten cheaper, more valuable, and
23 therefore it should go up, I'm not convinced of that.
24 And actually, it's interesting when you consider the
25 prospect of increasing telephone rates to their quality

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COMMISSIONER GARCIA: What did you mean by local tel plus?

DR. COOPER: That's just the basic service. These are the numbers that come from the demonstration that showed us we had \$13.86 rates --

COMMISSIONER GARCIA: Is that what you mean by local telephone?

DR. COOPER: That's what I mean by local telephone.

COMMISSIONER GARCIA: Local telephone plus is the ancillary services?

DR. COOPER: No, with the increase that is proposed back to the 1983 level.

COMMISSIONER GARCIA: Got you.

DR. COOPER: Okay. So that's basically -- essentially what that says is, take back the progress. That's exactly what this is -- that's what that fair proposal is about.

The other thing we've had is comparisons with other states, and essentially what I believe is that Florida ought not import the anticonsumer policies of other states, except I can't find my slide for that one.

At any rate, the answer is, and I'll provide the slide, if you look at Florida's policies on

1 unemployment, on school spending, on one that's
2 actually regulated by this Commission, the ratio of
3 residential electricity rates to industrial electricity
4 rates, it turns out Florida is consumer friendly. They
5 spend more on their students per capita, per pupil,
6 they spend more on unemployment compensation per
7 person, and they charge their industrials more relative
8 to their residential for electricity, which is
9 obviously something that this Commission sets. We
10 think those are consumer friendly policies, and there's
11 no reason to import the anticonsumer policies from
12 other states. So much for fair.

13 Now we get to affordable. And the telephone
14 companies have made the point that even with dramatic
15 increases in basic service prices, service would remain
16 affordable because most people would continue to
17 subscribe.

18 AARP believes that affordability involves the
19 burden that the cost of necessities imposes on people,
20 not simply whether or not they will keep paying for
21 that. And we have always held that definition and I
22 can go back to my 1984 testimony and assure you we
23 didn't make that definition up last year. It is the
24 relative burden that matters, not the absolute burden
25 that matters. So we know people won't give their

1 phones up and we know particularly that older people
2 won't give their phones up. They have a lower
3 elasticity of demand because that is their Lifeline.
4 And public policy has suggested we not impose a burden
5 on them for that necessity, and obviously we think
6 that's good public policy.

7 We also hear a lot of statements about some
8 people, many people would be better off with rate
9 rebalancing. And let me read a quote again, this is
10 another one that I'm going to flip, and I'll quote,
11 "While many customers' bills will be cut and others
12 little affected, some customers will probably pay
13 more." The adjectives are all scrambled in that
14 sentence. The correct sentence is, especially with the
15 radical rate rebalancing on the table in Florida, the
16 correct sentence is, "While some customers' bills
17 probably will be cut and others little affected, many
18 customers will pay more." We just move all the
19 adjectives around and you get a rather different
20 sentence.

21 Here's how we arrive at that with radical rate
22 rebalancing. Roughly for every \$1 of basic service
23 rate increases, if you do it exactly the way they have
24 shown in the contribution analysis, 42-plus cents
25 approximately goes to business. 42 cents goes to

1 business, so you don't have a lot of money left to
2 lower the prices for other stuff to do -- to keep the
3 somes and the manys in the favor of most people. Of
4 the \$1 of increase in basic service rates --

5 COMMISSIONER GARCIA: Could you go back to that
6 number, what was it that you said? Repeat it.

7 DR. COOPER: Approximately 42 cents. That is, you
8 raise basic service rates by -- to cover their, quote,
9 costs, as the companies see them. You lower other
10 people's rates to get rid of that, quote, contribution.
11 That's 42 cents for business. You can't see the
12 benefit of that in your phone bill. Businesses may or
13 may not pass that through in the cost of their goods
14 and services, but if you're going to do the phone bill
15 analysis, that 42 cents is lost to you on the simple
16 contribution analysis.

17 MS. WHITE: I have a question. My name is Nancy
18 White with BellSouth.

19 A couple of times a few minutes ago you mentioned
20 radical rate increases, and I want to know exactly what
21 you're talking about.

22 DR. COOPER: Well, by radical rate rebalancing I
23 mean the -- essentially the suggestion that we simply
24 take all of the contribution analysis, the pluses and
25 minuses, and implement them. And that works out in the

1 BellSouth analysis to, you know, about a ten or so
2 dollar increase in the basic service bill. And of
3 course that was -- those are the numbers in the range
4 that were presented by Mr. Harris this morning, between
5 \$20 and \$30, and that is complete. Of a one -- of
6 every \$1 increase in basic service rates, 30-plus cents
7 goes to vertical services if you follow those numbers
8 the way the contributions are. And I'll explain in a
9 moment why that -- so that goes to those -- that class
10 of customers who uses vertical services. You're left
11 with approximately 25 cents out of every dollar to flow
12 through to toll.

13 And you will -- when you look at the testimony,
14 you will see that we are constantly given discussions
15 that said, we raised basic and we lowered toll, but
16 what happened here was basic went up a buck and toll
17 came down 25 cents, so they weren't balanced. And it's
18 important to understand the dynamics of these numbers
19 when you do it in this fashion. Historical examples
20 might have actually been -- involved only basic and
21 toll, but this example is targeted fundamentally at
22 business, we've now discovered, and secondarily at
23 vertical services, so the old rate rebalancing we saw
24 in the '80s of raising basic a little bit and lowering
25 toll a little bit or even a moderate amount, that

1 balancing is not what we're talking about here.

2 Most of the money goes out to business and
3 vertical services, and I'm not certain that the claimed
4 effects of this rate rebalancing will be the same as
5 that rate rebalancing.

6 MR. DOWDS: Dr. Cooper, Dave Dowds with the staff.
7 Would you be able to provide us with the
8 derivation of the figures you're referencing here --

9 DR. COOPER: Yes. As I said --

10 MR. DOWDS: -- the 42 cents and the 30 and the 25
11 cents?

12 DR. COOPER: Yes, we will, and those are straight
13 from the BellSouth numbers.

14 Now, I will say that the BellSouth numbers --

15 MR. DOWDS: Could you tell us what BellSouth
16 numbers you're referring to?

17 DR. COOPER: The most recent round of testimony --
18 the contribution analysis.

19 MR. DOWDS: The ones they filed on August -- on
20 the 1st of August?

21 DR. COOPER: Yes, the ones I got as -- those
22 contribution analyses.

23 MR. DOWDS: So you're assuming that the offsets
24 would be limited to the services that were in those
25 contribution analyses?

1 DR. COOPER: Yes, that's what I've done. Now,
2 there's 175 million -- I will say, I think the
3 subscriber line charge or the federal share is not in
4 it, but I have to figure out exactly where it goes, and
5 we will have a chance to do that on discovery and ask
6 some questions. But basically this looks at the pluses
7 and minuses in that analysis.

8 Now -- so I think that's the flow of dollars.
9 There's a lot of leakage, if you will, not into toll.
10 It goes into other kinds of things.

11 Now, let me turn -- and that's -- so that when
12 you're done and, you know, we can ask this question,
13 show me the bill, the specific bill analysis, I want to
14 see every residential ratepayer's bills arrayed by what
15 they pay for which services, and we can do the
16 arithmetic to figure out what rate increases and what
17 rate decreases have to be made in order so that the
18 majority end up better off. We can do that -- you can
19 do that test as a Commission. And so when you make a
20 recommendation you can say the majority of people will
21 not end up with an increase in their bill.

22 COMMISSIONER DEASON: Dr. Cooper, right over
23 here.

24 How do you respond to the argument that with that
25 dollar increase in basic residential and the reduction

1 in business and the reduction in ancillary services,
2 that that reduction also benefits basic residential in
3 that it has a moderating effect of -- or a possibility
4 of those customers leaving, going with a competitor and
5 taking that high contribution away from the company
6 that has a responsibility to be the provider of last
7 resort for that basic residential customer?

8 DR. COOPER: Well, the fundamental question is, or
9 the first answer is that there's not an awful lot of
10 that competition yet.

11 The second response is, competitors -- and I have
12 participated in almost every 271 proceeding that's
13 gotten to the federal level and at the state level --
14 when competitors do their analysis of which markets to
15 enter, they don't only analyze basic service rates.
16 You look at the contribution analysis they do, and no
17 one in his right mind deploys a telephone network with
18 the intention of selling only basic service. You can't
19 get into that business. So when they look at that
20 market, they look across the whole range of services,
21 and they figure out, you know, which customers are
22 doing which.

23 COMMISSIONER GARCIA: If that's the case, if
24 that's the case that they only look at a specific part
25 of the market, then how are we to promote competition?

1 We leave the subsidies in, we let the incumbent carrier
2 lose the parts of the market that are profitable, and
3 thereby we're left with the unprofitable parts of the
4 market?

5 DR. COOPER: Well, let's be clear that the part --
6 the market segmentation that -- it's not -- people are
7 trying to market segments.

8 COMMISSIONER GARCIA: I'm sorry if I interrupted
9 your answer, it's just -- and I know you were answering
10 Commissioner Deason's question, but you just alluded to
11 the same problem that the LECs are pointing out.

12 DR. COOPER: Yes.

13 COMMISSIONER GARCIA: You know, you're saying,
14 when someone looks at a market, they don't look at
15 residential service. We agree. I think everybody
16 would agree. So they're not looking at residential
17 service, and I think part of what the Legislature was
18 trying to do in the bill that failed was point out that
19 there must be some subsidy in there and thereby we're
20 not having a market as efficient as it should be. And
21 you just stated that you're right, nobody goes into
22 that market to do that business. So what do we do?

23 DR. COOPER: Well, the question was, how does that
24 affect the competitive prospects? And insofar as
25 people enter markets, I don't think it changes that

1 competitive prospect all that much, for a variety of
2 reasons, one of which is that when people enter a
3 telephone market, they market in an area. They try and
4 market segment by their pricing strategy. I flew down
5 here last night, had something doing in Washington, I'm
6 a business traveler, I paid a pretty penny for that
7 flight. They segmented me because I wouldn't stay over
8 Saturday night. If I had come on Friday and stayed
9 until today, they would have charged me -- so -- but,
10 on the other hand, they advertise to everybody. So
11 that the problem will come and may come when people
12 gain substantial market share and there is a segment in
13 the market that they have managed to segment out of.

14 We may get that problem. We don't believe that
15 problem is here today. We don't believe it's nearly as
16 large as we're told, and we don't think the solution is
17 to simply shift those margins, because when you
18 calculate the margins for individual customers and you
19 drop it way down on call waiting and you run it way up
20 on -- for certain segments of customers, you haven't
21 changed it, and for a certain segment of customers, the
22 residential customer who has one line and doesn't use
23 the phone much, I don't know how much competition
24 they're ever going to get. And so that is a problem
25 that remains.

1 COMMISSIONER GARCIA: So if the concept is that
2 we're never going to get competition, should we move at
3 all? Should we just keep the system we've got in
4 place? Should we suggest to the Legislature we should
5 go back to rate of return regulation?

6 DR. COOPER: Well, I mean, you're mixing rate of
7 return regulation with competition, and in part, price
8 cap regulation was suggested because the market would
9 become competitive. But clearly, we have, as was
10 suggested this morning, a significant failure of
11 competition, certainly in the residential sector and in
12 much of the business sector. And so we are struggling
13 with the notion that we might have been wrong, maybe
14 the loop is a bottleneck. Of course, Congress foresaw
15 that and required a certain type of pricing and we
16 still haven't finished with that. There will be oral
17 arguments at the Supreme Court next week.

18 So one of the things I would say to the
19 Legislature is, "Don't double my basic rates," until
20 you know what your model looks like. I've shown you
21 that there's no reason to, particularly if the loop is
22 a shared cost.

23 There's another way, as we can recover the costs
24 for the share of the loop we want to allocate to other
25 parties in a more economically rational fashion. This

1 is one of the important things, is that, for instance,
2 you hear the complaint mixed in with the complaint
3 about the loop is a shared cost, that you shouldn't
4 recover fixed costs with variable charges. That's a
5 separate issue. I'm perfectly willing to recover those
6 -- that share of the cost in a fixed charge. The FCC
7 has tried that. That's called the PICCs. The industry
8 didn't like it and they've resisted it.

9 But you can solve different problems, you will not
10 solve the competitive problem for most people because
11 the total margin is what matters. And in fact, many
12 people are entering the local market not so much on the
13 basis of telephone margins, but on the basis of what
14 they think they're going to sell on Internet. And they
15 intend to run their high speed data over that line and
16 recapture those margins, and what are they doing?
17 They're spreading the costs of their common facilities
18 across more and more services.

19 COMMISSIONER GARCIA: So if they're willing to
20 enter at this level, you're saying, don't you think
21 then that they'd enter even in a more aggressive manner
22 if the price were -- what's the line, if they had an
23 incentive, in other words, if there was more there for
24 them to get?

25 DR. COOPER: Oh, you could set basic services up

1 high enough and get entry. That doesn't make me better
2 off. That was not our idea of what competition was
3 about. So it's obvious that you could set the price up
4 high enough and then you would have people entering.
5 That is not what we had in mind. We thought
6 competition was going to drive prices down.

7 And so starting from the rebalance, the \$10
8 increase, and telling me my bill is not going to go up
9 when you can't show -- when you've got the leakage, is
10 not good public policy, not good social policy in my
11 opinion.

12 There is a competitive problem. It resides in a
13 class of customers who are not going to be very
14 attractive almost regardless of what you do. You could
15 make their rates high enough, you would make them
16 attractive. You would not make them very happy.
17 And actually that sort of leads me to where we're
18 going, because we've been talking about the general
19 body of ratepayers. When we start to look at specific
20 social categories of ratepayers, we start to see some
21 very much more heightened impacts. And of course I
22 appear today on behalf of older Americans here in
23 Florida, and the staff has done a survey that is, I
24 think, a terrific survey, and I'll discuss some of the
25 complaints about it, but this is the one -- remember

1 now, 40 cents of every dollar plus went to business, 30
2 cents of every dollar goes to vertical services, and
3 approximately, you know, we will do some discovery and
4 pin down what's in and what's out.

5 Well, if you look at older households -- and by
6 older households I mean either single person or older
7 couples, and I say couples, we don't know the gender,
8 but it's essentially two older folks living together,
9 or a single older person. I haven't included mixed
10 households. What we discover is half of those folks
11 don't have any of those vertical services. So the
12 constituents that I represent, we lost 40 cents --

13 COMMISSIONER GARCIA: Give me an idea of what --
14 half your constituents, what does that represent
15 population-wise for Florida?

16 DR. COOPER: Oh.

17 COMMISSIONER GARCIA: Ballpark, you don't --

18 DR. COOPER: Olders, elder -- there must be
19 somebody in the room that knows the percentage of older
20 households. I will provide that. I mean, I can derive
21 that, assuming it's representative. I'm not sure. It
22 might be 14 or something for the total older
23 population, but then I'm going to have to ferret out
24 who are in household. But it's probably seven or
25 eight, maybe ten percent of the population. That's a

1 ballpark figure, and there may be someone who knows
2 those numbers better than I.

3 COMMISSIONER GARCIA: Could you explain what that
4 charge says again?

5 DR. COOPER: This is -- and I've included -- I've
6 included in here any bells and whistles, so that
7 includes an unlisted number. And I may go back and --
8 so basically this is spending on any local bell or
9 whistle, anything above basic service. And I may go
10 back and pull out unlisted numbers, but obviously, I
11 would suspect that the contribution on unlisted numbers
12 is substantial as well. But basically half the people
13 don't get any of the -- don't buy any of those bells
14 and whistles, according to the Public Service
15 Commission -- the survey. Another 27 percent or so get
16 one, and so they will be on the short side of that
17 redistribution. It's the people who get two or more
18 who will probably be on the positive side of that
19 redistribution. And these are just -- this is the
20 arithmetic of rate rebalancing from my constituent's,
21 client's point of view.

22 Low income households are a little different.
23 They're more likely than the average household to not
24 take any, but less likely than the elderly household,
25 and that works out around along the line.

1 COMMISSIONER JACOBS: We've heard a lot and I'm
2 wondering to what extent you may have considered the
3 influence of Lifeline. There was an inference that
4 Lifeline was -- turned out to be a substitution and the
5 people used that income that they would have had to
6 have paid to go on and subscribe to the verticals.

7 DR. COOPER: We started from the premise that
8 burden is what counts, and so when someone says, as
9 some company witnesses have said, I will get the exact
10 quote, "Lifeline has no value because it doesn't
11 increase the percentage of households on the network,"
12 they've missed the point. Lifeline increases the
13 income of poor households to whom income is very dear.
14 So Lifeline may not get more people on the network,
15 although it's a certain number, and they concede it's a
16 certain number, but everyone who gets Lifeline going
17 forward has \$10.50 more a month to spend.

18 COMMISSIONER DEASON: Let me ask a quick
19 question. Would that mean, then, that we should
20 promote a policy of taxing telephone customers to
21 promote a social policy of putting more net income or
22 disposable income in poor people's pockets?

23 DR. COOPER: I participated in a Lifeline
24 proceeding that created the program in Florida and I
25 will tell you that we gave sound and good reason why

1 ratepayers should be the ones who promote universal
2 service. The primary benefit of the ubiquitous network
3 is, you can call more people, and the answer is that
4 you get the value if you're a telephone subscriber and
5 therefore it is reasonable for you to make that
6 contribution.

7 One justification for doing -- again, I'm not
8 saying that you should tax telephone ratepayers for
9 food stamps, but this is a benefit delivered through
10 the network, and I will give another answer. One of
11 the reasons --

12 COMMISSIONER DEASON: Let me interrupt you a
13 second. I thought that you had indicated that Lifeline
14 does not increase the --

15 DR. COOPER: A little bit.

16 COMMISSIONER DEASON: Just very marginally. That
17 the main benefit is to put more income in the pockets
18 of people who don't have much income, and that's kind
19 of a social goal, and I'm not arguing whether that is
20 meritorious or not. My question is, if that is
21 meritorious, why are we taxing telephone customers?
22 Why doesn't that just come out of general revenue some
23 way, in income taxes or whatever Congress sees fit?
24 Why is it that telephone customers should bear that
25 burden?

1 DR. COOPER: I have -- well, again, there is some
2 externality benefit, so that, as I said, there is a
3 benefit and we will argue about how big it is. So that
4 is one good reason for telephone subscribers to
5 contribute.

6 COMMISSIONER GARCIA: Doctor, could you give me --
7 since I asked you for part of it, could you give me --
8 when you file that or you said you'd get it, what those
9 percentages represent in Florida? I mean all people,
10 not just the elderly, but just to get an idea of what
11 -- because obviously those are some of the people we
12 are considering when we ask the word fair, I mean, and
13 obviously the ones that sort of can't take care of
14 themselves or want some help is this group. So if you
15 could define that universe that you've got there, I'd
16 appreciate that.

17 DR. COOPER: Yes, we will -- assuming it's a
18 random sample, and I have assumed that, then I can give
19 you the percentage and then we can try and translate
20 that as best we can to the number of households.

21 COMMISSIONER GARCIA: Okay. Because you're right,
22 that's the statistics our staff -- you're just raking
23 it out that way. That's what our poll showed?

24 DR. COOPER: That's what your polls show, and I
25 will do a substantial amount of analysis of that

1 survey.

2 COMMISSIONER GARCIA: Is there some way we could
3 ask the company to give us a concept of -- I guess
4 that's based on our demographics, not theirs, right?

5 MR. McNULTY: Yes, Bill McNulty with PSC staff.

6 What we have with the survey is a representative
7 sample, it's not exactly random. We had, as you may
8 recall from last week, an oversampling that was done in
9 order to make it representative of the state of Florida
10 in terms of income, and that was -- that became the
11 turning point on which we established our sample.

12 DR. COOPER: Yeah, so, I mean, I can tell you this
13 represents such and such a percentage of the households
14 in your survey. If your survey is representative of
15 the households in the state, that is the number. But
16 again, you can see the problem in the way the numbers
17 have been presented is that 40 percent went to
18 business, plus percent, 30 percent went to vertical,
19 and half of my folks don't get any of that. So it's
20 tough to tell my folks that their bill is not going to
21 go up. Of course, the remaining 25 percent goes to
22 intraLATA toll, some of which may or may not get passed
23 through. We've had this debate and I am not current
24 with the ability of the state of Florida to look people
25 in the eye and say, "If I lower your access charges,

1 where is it going?" The first inclination is not to
2 send it down to the low use residential customer.

3 Second of all, of course, and this is also from
4 the survey --

5 MR. DOWDS: Dr. Cooper, could I ask a question
6 before you go on? I have one real quick question about
7 the prior slide.

8 DR. COOPER: Okay. Was it technical or --

9 MR. DOWDS: I don't think so. You show, for
10 example, the number of vertical services and you show
11 one. Is that exactly one or at least one?

12 DR. COOPER: Exactly one.

13 MR. DOWDS: So basically you're understating
14 because -- if it's exactly one, then, right?

15 DR. COOPER: Yes. This is the frequency
16 distribution. This is six or more, okay. No, this is
17 the frequency distribution. So I've listed there the
18 percentage of people that have none, the percentage of
19 people that have one, and my point is that all those
20 vertical services revenues can't be captured by half
21 of my constituents, a simple point. And then the
22 second number, those folks are not likely to get the
23 full benefit of the 30 because that's going to be
24 spread -- the people that have two or more are going
25 to make out just fine. That's three-quarters of my

1 folks who won't be held harmless, if you will, and
2 that is sort of the suggestion.

3 MS. WHITE: This is Nancy White again, right over
4 here. Sorry. Right here.

5 DR. COOPER: Oh, sorry.

6 MS. WHITE: With BellSouth. And I have a
7 question. I mean, my mother, who is elderly, a widow,
8 but not low income, would she fall in --

9 DR. COOPER: She's an elderly single, absolutely.

10 MS. WHITE: Single. So your elderly single and
11 elderly couple include both affluent elderly and low
12 income elderly?

13 DR. COOPER: Yes, yes, I have done -- and I would
14 love to do low income elderly, but the numbers get
15 small in the sample, even in the sample. And so you
16 start to -- you know, you can do it, and if you'd
17 like, I can run it.

18 COMMISSIONER GARCIA: They're comprehending each
19 other, because it just strikes me as --

20 DR. COOPER: Low income is comprehending -- well,
21 "all" comprehends everybody. Low income comprehends
22 low income people, some of whom will be the elderly,
23 and elderly are all separate. I have -- I could run
24 the numbers for low income elderly. The problem is
25 that if I put them up and you start -- they'll say the

1 sample size is too small because you're down to 35 or
2 40 respondents. And so I would be remiss -- I would
3 hesitate to suggest to you percentages on the basis of
4 that small of a sample size, but you can run those.
5 These are elderly, and I don't only represent low
6 income elderly here. The organization represents all
7 elderly.

8 COMMISSIONER DEASON: Excuse me, given --

9 DR. COOPER: I'm sorry.

10 COMMISSIONER DEASON: That's okay. Given the
11 relative subscription rates to vertical services of
12 low income versus elderly and that it appears low
13 income has a higher subscription rate than the
14 elderly --

15 DR. COOPER: Yes.

16 COMMISSIONER DEASON: -- do you conclude from that
17 that the elderly do not subscribe not because they
18 cannot afford but because they do not need these
19 service?

20 DR. COOPER: Well, they don't -- they may not
21 value. Subscription is an estimation of price and
22 value. Well, and the other thing is, let's be clear,
23 most of these subscription rates have to do with use.
24 If you use the phone a lot -- and we could break these
25 down by each service, and I have a suspicion that call

1 waiting, which is sort of the poor person's second
2 line, may be a lot of the ones in there, but at any
3 rate, older couples don't use the phone as much, and
4 you can look at your numbers in the survey and you
5 will discover that they're socially less connected, et
6 cetera. You can do a lot of sociological discussion
7 of why, but this is -- I was here doing the economics
8 of the rebalancing, and the manys and the mosts and
9 the somes, and the folks I represent are not in -- you
10 know, they don't come out that way. Of course, they
11 don't use -- they don't spend as much, and these are
12 the self-reported telephone bills from the survey,
13 again, and low income and elderly couples spend less.
14 The low income, you will make the observation that
15 they spend about the same on local service as the
16 entire population. We saw that the vertical services
17 were only somewhat less, et cetera. It's the long
18 distance portion, certainly for the single elderly,
19 that is lower.

20 And again, the survey did not distinguish between
21 intraLATA and interLATA long distance. It asked about
22 long distance bills, and probably rightly so, because
23 most respondents would not be able to make that
24 distinction.

25 But again, this is the bill impact analysis which

1 you can have the companies make. They pull their
2 billing samples and they have presented some snippets
3 from other states and so forth. Let's get a billing
4 sample, random sample, in the state of Florida and make
5 that data file available so that folks like me can
6 analyze it, and let's see what the billing impact is.
7 That's something that this Commission can ask for.
8 With actual bills, people tend to overstate their bills
9 when they're asked them a little bit, although it's not
10 that bad in this survey, given the numbers I've seen.
11 People have actually done decently in estimating their
12 bills, a little bit high, but not that bad. But doing
13 bill analysis on the base of survey results is
14 problematic.

15 I did the survey, the Michigan Divestiture
16 Research Fund survey, back in the early '80s where we
17 actually did both. We asked people and then we got
18 the phone company to show us their bills and we made
19 that comparison. That's the more difficult survey,
20 but it can be done.

21 So if I do the arithmetic, if I do the arithmetic,
22 I discover that I think my folks are not going to come
23 out better off. That's pretty clear if you do the
24 arithmetic. I think it's true of all consumers because
25 of where the money goes, particularly true of my

1 constituency.

2 So then, let's ask them what they -- what would
3 happen to them if you raised their bills. A very brave
4 thing the Commission did was having a survey, ask
5 people what's going to happen to their bills, and
6 there's been a bit of a flap about starting point bias,
7 and as far as I can tell, the -- and the discussion of
8 starting point bias was completely undermined by a
9 miscoding of the variables. That is the -- there is a
10 little starting point bias, but nowhere near what was
11 discussed, as far as I can tell. That is, there's a
12 slight difference between the people who started at two
13 and that started at 20, but the survey, as far as I can
14 tell, flipped the coding around and the analysis that
15 was presented last week did not. That's as far as I
16 can tell, because I've looked -- I've split it between
17 the twos and the 20s, and it doesn't come out that way.

18 MS. CASWELL: Mr. Cooper, Kim Caswell with GTE.

19 Were you here for the analysis last week discussed
20 by Mr. Perry?

21 DR. COOPER: I was not here. I had a report of it
22 and I read the testimony and took the testimony and
23 tried to square it with my copy of the survey results.
24 It does not jibe with what I have, so I think the
25 second set of variables were miscoded. But --

1 MS. CASWELL: When you say the second set of
2 variables, what does that --

3 DR. COOPER: The questions that started from 20.
4 There were two sets. Some people started at two, some
5 people started at 20. I think the 20 -- of course, the
6 coder -- the coding, if you look at the questions, they
7 flipped the order around. You just have to -- the
8 rules for coding are fairly complex, and so I think
9 that that was -- now, that doesn't mean to say there is
10 not a little starting point bias in the survey. There
11 is a little starting point bias. However, in order to
12 prevent against that, and obviously that will be sorted
13 out before we're done, what I did here was I took the
14 responses to a clean question. This is an absolutely
15 clean question. That is, I only took the first people,
16 the first question, and I only looked at \$2.

17 So there's no bias here. You ask people straight
18 up, what would happen if I raised your bill \$2? We
19 could have looked at the \$20 question as well, because
20 that's a clean question. That person didn't hear two,
21 didn't hear anything else, so at least that first
22 question in the sequence does not suffer from the
23 bias.

24 There were other complaints about the structure of
25 the questions, but this is the \$2 question, and the

1 answer is that a lot of people said it would have an
2 impact on them even at \$2. That's what they said.

3 Do these numbers jibe with the econometric
4 estimates of price elasticities? These are bigger
5 impacts. These are bigger impacts. So people say
6 stuff, but, of course, the price elasticities, you
7 know, have other things going on, but this is what they
8 said, and, of course, interesting -- older single,
9 let's take the widowed mother who is living alone.
10 Older singles are not going to give up their phone, an
11 observation we have made frequently. Why? It's their
12 Lifeline. They will say they're going to have to cut
13 back on other stuff. That's what they say. That's the
14 way they perceive these impacts.

15 DR. TAYLOR: Dr. Cooper, Bill Taylor from NERA.
16 Just a quick question --

17 MS. MARSH: Turn your mike on, please.

18 DR. TAYLOR: Sorry. Bill Taylor from NERA. A
19 quick question to understand the graph.

20 Does that mean that roughly 70 percent of
21 Floridians feel that a \$2 increase would not cause
22 them to cut back elsewhere?

23 DR. COOPER: It means that a -- no, it would be a
24 -- well, not cut back elsewhere, plus seven percent who
25 said they would give up the phone. So it's -- you

1 could say that 63 percent said \$2 won't hurt us,
2 absolutely. On the other hand, when you get to my
3 constituents, it's -- I believe it's about 50-50. Half
4 said it would either cause them to give up service or
5 cut back, and you can see those percentages,
6 absolutely.

7 DR. TAYLOR: Thank you.

8 DR. COOPER: Those are the responses. And again,
9 the seven percent statewide said they'd give up.
10 That's more than the econometric estimates, but that's
11 what they perceived. And those are again -- I think
12 you can use the other numbers. You can adjust them
13 for the question of starting point by averaging. You
14 can certainly look at the 20 as a clean number. You
15 can look at the ten, which is in the middle of either,
16 either path, which is roughly the numbers on the
17 table, but that -- you know, you do the economic
18 analysis first. My folks end up with a higher bill.
19 That's what they -- I think they do, looking at the
20 dynamics, and they seem to recognize that they will
21 end up with a higher bill. If they believe their bill
22 wouldn't be any higher -- and of course, they could
23 have been presented options in different ways, but
24 that is the simple observation of those folks.

25 So at the end -- and it's interesting, you have

1 heard a tremendous amount about this cost question.
2 There are almost no questions about the cost issue
3 because that is an issue that has been finely, highly
4 refined. We agree on the fundamental definitions. We
5 may disagree on how many -- what the fill rate should
6 be and what the percentage of inground and above ground
7 should be, but the concepts are there, simple issues,
8 straightforward issue, is the loop shared?

9 We get to the social questions, the fair,
10 affordable kinds of questions, and it's not nearly as
11 much analysis as we have done on the other side. The
12 survey is absolutely important to start to look at
13 that. A bill impact analysis is important to look at
14 that. And fill that in and you will understand
15 obviously why people, you know, sort of react when you
16 talk about revenue neutral rate rebalancing, because
17 it ain't neutral for most.

18 Thank you.

19 MR. McNULTY: Yes, Bill McNulty with staff.

20 There was some discussion last week regarding
21 weaknesses of the survey. You may recall that the
22 items were listed as strategic behavior, an emphasis on
23 price, and a lack of realistic options in the price
24 increase and price decreasing and increasing
25 questions. Do you have any comments, input in those

1 areas?

2 DR. COOPER: Well, I will -- we will thoroughly
3 analyze that survey and we're going to try and get the
4 other survey. I guess that was presented at -- the
5 data, underlying data.

6 Obviously, the most thorough presentation was
7 starting point bias, and I think that was simply wrong,
8 and so to the extent that that cast doubt about the
9 survey, I think you need to put that aside. Strategic
10 behavior, you know, it is hard to imagine people gaming
11 that process by saying, hey, maybe if I say this, they
12 won't raise my rates. I'd be interested -- I have to
13 reread the introduction. I'm not sure how many people
14 know what the PSC is and whether or not they actually
15 set their rates, and -- I mean, certain AARP members
16 are very much attuned to it and at moments they know
17 where to send their cards and letters, but, you know,
18 you get calls and say I'm conducting it for the PSC,
19 and it -- I'm not sure it's strategic behavior.

20 But the other one was what?

21 MR. McNULTY: Lack of realistic options. For
22 instance, we had the -- we had the options of
23 disconnect, pay the increase but modify --

24 DR. COOPER: Or cut back someplace else?

25 MR. McNULTY: And in that one specific option

1 where we said pay the increase but modify other
2 behavior, I think the comments were basically directed
3 to giving realistic options where people would
4 actually do more concrete examples, and I'm just
5 wondering what level of difficulty you think that
6 presents.

7 DR. COOPER: Well, obviously it would be possible
8 to -- look, it would have been possible to say, for
9 anyone who said give up something else, you could have
10 jumped into a sequence and said, what would you do? I
11 would have hesitated to give them options because then
12 the complaint is, well, they might not have thought of
13 that. So you could have gone into an open-ended
14 question and said, well, if you were going to cut back,
15 what would you cut back on, and see what they said.
16 See, but the idea of then turning around and saying,
17 well, maybe you'll cut your long distance bill, I don't
18 know if they would have thought of that, and once you
19 give them the option, then you've -- you know, so
20 survey research is that kind of research. We like to
21 say it's not an art, but then again, cost and cost
22 allocations sometimes starts -- stops looking like an
23 art as well because you've got to decide who caused the
24 cost.

25 But, yeah, so you could have asked an open-ended

1 question and then seen what people said and that would
2 have told you something qualitative about the kind of
3 impacts they would have said. And what you would have
4 found was, my folks would not have said give up caller
5 ID because half of them don't have it. So I suspect
6 they would have said, well, I'll have to -- you know,
7 they might have said make fewer long distance calls.
8 They might have said I'll have to have one less egg a
9 week. Who knows? So it would have been possible to
10 respond.

11 MR. DUNKEL: Hi, this is Bill Dunkel.

12 Mr. Regan in my office has gone through the survey
13 data and he'll have more information, he's actually
14 counted how many people answered what, but just to
15 summarize, the GTE statement that more people said
16 they'd disconnect at \$2 than at \$20 simply is not in
17 the data. It's simply some sort of GTE miscalculation.

18 DR. COOPER: It's the coding. The coding was very
19 complex, and so they missed that point. I mean -- but,
20 on the other hand, there is a starting point bias. The
21 people who were given the \$20 question first gave
22 higher answers. I believe it's almost across the
23 board. I have the matrix in it, and -- so the answer
24 is maybe you average it, I mean, to get an estimate, or
25 maybe you, you know -- I chose to just do two bucks and

1 say people care at \$2, and we're talking about ten. In
2 our comments we will analyze all the responses.

3 MR. McNULTY: I would just like to make a comment
4 that we're interested in receiving any type of input
5 you have in the way of work papers and data output that
6 you've done in this area, and likewise for other
7 parties who may be present, because obviously there is
8 -- there has been some question in regards to the
9 coding of this information and how we aggregate this
10 data correctly, and of course, staff has done that.
11 We've done that ourselves, but we want to remain open
12 to the possibility that mistakes may have been made on
13 our part as well, so we're anxious to receive that from
14 all parties who have -- excuse me, not parties, but
15 interested persons who have looked at this question.

16 DR. COOPER: Well, I will say that the way the
17 results -- the way the coding book was delivered to me,
18 when most people deliver coding books, they give you
19 the marginal totals. That is, they run one time
20 through and they simply give you the count of every
21 response. That would have been very helpful because if
22 you -- I do survey research all the time and so the
23 first cut they'll always do is they show you the
24 marginal totals, so you would have been able to figure
25 out, match up -- if they had given the marginal totals,

1 they would have looked down and said, wait a minute, my
2 marginal total's different than their marginal totals.
3 So as a matter -- that is particularly helpful, and it
4 would be helpful if you -- well, maybe you should
5 publish your coding scheme or maybe you should just put
6 out your marginal totals so people can match up and
7 figure out what went on. But that would have been
8 helpful. It was not easy to figure out the coding
9 scheme at any rate.

10 COMMISSIONER DEASON: I have a question. How good
11 of a predictor do you think this type survey is for
12 predicting actual behavior after a fact occurs? For
13 example, do you really believe that there will be
14 eight or nine percent reduction in penetration if
15 there is a \$2 increase?

16 DR. COOPER: No. As I said, these are much higher
17 than the econometric estimates. So people say that
18 stuff. On the other hand, the people who -- there's a
19 lot of people who say I will feel it. That doesn't
20 mean they won't feel it, but when push comes to shove,
21 are they going to pull their telephone out of the wall
22 for two bucks a month? No. We know, especially for
23 older Americans, you can raise their price and they're
24 not going to give it up. B again, we started from a
25 premise that affordability is not about who stays on

1 the network only. It is about that, but -- and so, you
2 know, I think this is a high number for sure, and
3 you've been shown econometric estimates, I mean, and
4 there are higher estimates and different ways of
5 deriving that.

6 Will some people give up their phones? Yes. Will
7 it be a small number at \$2? Fairly small. But as I
8 said, we never established this data on the fact that
9 who's on and off the network.

10 MS. CASWELL: Mr. Cooper, Kim Caswell. I just
11 want to follow up some questions Commissioner Garcia
12 had earlier, and I'm not sure I understood your
13 answers.

14 The question I have for you is, what is your
15 recommendation that this Commission should tell the
16 Legislature, that it change nothing, especially in the
17 way of pricing, that everything should stay just the
18 way it is today?

19 DR. COOPER: Well, I think this Commission should
20 tell the Legislature that if you treat the loop as a
21 shared cost, which we do, then the claims about subsidy
22 are not substantiated, that basic service rates fall in
23 a reasonable range defined by technical subsidy
24 questions, equal burden/equal benefit rule, and
25 therefore, there is no compelling need to change rates.

1 Certainly the radical rate rebalancing -- they should
2 also tell them that when we do the bill analysis, done
3 in this way with those orders of magnitude of \$10 or
4 more, the majority of residential customers are going
5 to end up with a higher bill. I think that's what they
6 will find when they look at it.

7 MS. CASWELL: So the answer to my question would
8 be yes?

9 DR. COOPER: Well, the question then becomes a
10 more differentiated and subtle question: Are there
11 pressing problems that must be addressed in terms of
12 market share loss? I don't see it. So maybe the
13 Legislature should be told, let's see how competition
14 develops. We're told that competition will undermine
15 the ability to do this, that and the other thing. It
16 ain't here yet.

17 MS. CASWELL: So there's no need to do anything
18 right now?

19 DR. COOPER: I do not see an immediate need to --

20 MS. CASWELL: Okay.

21 DR. COOPER: -- change rates.

22 MS. CASWELL: Just one more question.

23 From your discussion earlier, I understand that
24 you think that competition in this area means more
25 entities in the marketplace and it should mean lower

1 basic service rates. How would you go about having
2 that happen? How would you recommend to the
3 Commission that they achieve those things?

4 DR. COOPER: Well, I think the first rule is to
5 implement the '96 Telecom Act vigorously and
6 effectively. If you're a regional Bell operating
7 company, Section 271 is the correct way to go about
8 it. Once we -- I mean, the assertion has been made
9 that low basic service rates are preventing competition
10 from occurring. After we have Section 271 implemented,
11 after we have the technical, legal, administrative
12 obstacles out of the way, after we get the 14 points
13 and people have time to figure out a business strategy,
14 if after we have actually opened the market we don't
15 have competition, then you'll have a case. But right
16 now it is my belief that the barrier to competition is
17 opening the bottle, and I have -- as I said, I have
18 participated in the proceedings in Georgia, Texas,
19 California, New York. I cited the Florida staff report
20 at great length. So to me, we start there. Doubling
21 the cost of a commodity like telephone service is a
22 dramatic step. It demands a lot more proof,
23 particularly in terms of opening markets, I think, than
24 we have on the table.

25 MS. CASWELL: If you're telling the Commission to

1 implement the Telecom Act, what exactly do you mean?
2 What should they do?

3 DR. COOPER: Well, they certainly shouldn't
4 approve entry until we get the 14 points right. Of
5 course, there are some companies who don't have that
6 incentive. I think we wait, we see what happens with
7 the Supreme Court. We -- if we have findings that
8 people are not doing 251, 252 properly, we take
9 aggressive action against them.

10 COMMISSIONER GARCIA: Should we look at it as a
11 process, though? Let's say we don't opt for radical
12 reform, but let's say we opt for reform of some type
13 and let's say we decide that the price of that service
14 -- we don't go with your theory, but we go with the
15 price of -- maybe your caveat is good for another
16 issue. Let's say we decide that the price of basic
17 service is around, and I'm making these numbers up,
18 \$18.

19 DR. COOPER: The cost or price?

20 COMMISSIONER GARCIA: The cost is \$18. So that's
21 what people should be paying for the system, as an
22 example. If we don't opt for a radical reform, should
23 we perhaps say to the Legislature, there is some
24 subsidy there, and start down the road of rebalancing
25 so that when the court issues are resolved, when 271 is

1 solved, we are at least closer to there so that
2 competition will begin on its way, or should we just
3 wait and say to the Legislature, let's wait and see,
4 there's too many things out there, and when all that is
5 said and done, then we'll start down the road of
6 rebalancing?

7 DR. COOPER: Obviously, I prefer your -- I prefer
8 the latter. I want to get the technical administrative
9 -- I mean, we're told that people -- or suggested that,
10 you know, competitors will only compete at the high end
11 of the residential market. Well, when we get the rules
12 implemented, we will see whether or not that happens.
13 I don't believe market share will tip so radically that
14 phone companies will go broke when that happens. So I
15 don't see the urgency.

16 The second thing that will happen -- and let's be
17 clear about it, clearly has happened with the companies
18 that have been allowed in -- the Telecom Act envisioned
19 a swap of market shares, if you will. The Telecom Act
20 expected the local companies to lose some local
21 business, and when they get into long distance, to gain
22 some long distance business. There was nothing wrong
23 with that. Margins get replaced and people may end up
24 in the same place because they've now captured the
25 other guy's margins, and you can go to Pennsylvania and

1 listen to the Bell companies and they will sit and
2 testify, have a tremendous debate, and the phone
3 company executive said, "He wants my margins, my
4 margins are bigger than his, and I want his margins."
5 And so the notion that something untoward is going to
6 happen here if you don't do this, I don't accept.

7 Now, if you force me to take your hypothetical,
8 then my second answer would be do it slowly.
9 Obviously, that gives people time to adjust. It gives
10 the 271, 251, 252 process time to alter, but I'm not --
11 again, I don't see the marketplace reason, I don't see
12 the social reason, I don't see the legal reason to do
13 it, because the industry has not changed that much here
14 in Florida. The market shares lost are very small.

15 MR. REHWINKEL: Dr. Cooper, Charles Rehwinkel with
16 Sprint-Florida.

17 Could you do me a favor and turn back to the slide
18 you had up before this one? There was a -- I may have
19 been confused about something that was said.

20 DR. COOPER: This is the local and long distance
21 bills?

22 MR. REHWINKEL: Yes. The phrase where it says
23 house -- low income and elderly households have already
24 cut back on their telephone bills, what do you mean by
25 that?

1 DR. COOPER: Well, they spend less. I may have --
2 that may be a more aggressive -- they spend less.

3 MR. REHWINKEL: Okay. So that was not a -- there
4 was not a time series --

5 DR. COOPER: No, the -- "cut back" is -- they
6 spend less.

7 MR. REHWINKEL: Okay. And one thing you don't
8 know from -- and this is again from the PSC survey?

9 DR. COOPER: Yes.

10 MR. REHWINKEL: You don't know where those
11 customers are located or if they're in rural exchanges
12 and might have lower rates already?

13 DR. COOPER: I don't know. There may be
14 geographic coding in there that would have enabled me
15 to identify where they are, I'm not sure. I mean, and
16 I did not try and do -- the cells, the samples sizes
17 are what make it -- you might be able to do it by
18 company, but I'm not sure -- I doubt that they have a
19 large enough sample so that you would be confident
20 analyzing rural, although with 1,500 respondents you
21 could split it rural/urban, and probably you'd have
22 enough.

23 MR. McNULTY: I believe that the coding also
24 included county codes so that you could look at it by
25 county, and in addition, I believe area codes.

1 DR. COOPER: How many counties in the state?

2 MR. McNULTY: 67 counties.

3 DR. COOPER: So the cell sizes are going to get
4 very small, but I bet if rural/urban -- if you know
5 which counties are rural and which counties are urban
6 by definition, you could -- or you could do the
7 extremes and do something like that.

8 MR. McNULTY: We have some data that was collected
9 as well as to the different densities. I believe, for
10 the respondents, the different population densities
11 from which the respondents live. That again is based
12 strictly upon county information. So we have county
13 information, densities of those counties, and you can
14 tier those into any type of groupings that you would
15 like, and, you know, that's one way of getting at that
16 question.

17 DR. COOPER: Yeah, you can -- I mean, if the
18 geographic identifiers are in there.

19 MS. WHITE: Nancy White with BellSouth. I just
20 want to follow up on a couple of your comments.

21 If all it takes to have competition in the state
22 of Florida is 271 and the 14 points, then why isn't
23 there more competition in the GTE and Sprint business
24 markets?

25 DR. COOPER: Well, I don't -- I'm not convinced

1 that GTE and Sprint have implemented 251, 252 with the
2 rigor that the 271 process is imposing on the Bells.
3 But I haven't looked at those -- I mean, that's my
4 answer. I have participated in the proceedings in 271,
5 and the commissions, the FCC, the DOJ, have in my
6 opinion done a very good job of opening markets. They
7 have not -- and so I have -- and I have urged some
8 commissioners to move on and say, let's take this model
9 and see if they're doing 251 over here in GTE and
10 Sprint. I think GTE and Sprint are getting a free ride
11 because the process -- and the Bells have said they've
12 been punished. I understand that. So -- but I think
13 there's a difference in the way the process is being
14 implemented.

15 MS. WHITE: I have one other question, too. You
16 -- I believe you said that you didn't believe that when
17 competitors come in, they will just go after the high
18 end residential market?

19 DR. COOPER: No, I said they will try and segment
20 the market.

21 MS. WHITE: Okay. I mean, because my question
22 would be, why would a competitor want one of your
23 people as a customer? They don't buy vertical
24 services, they don't make that many long distance
25 calls. I believe what you're saying --

1 DR. COOPER: It depends on -- obviously they go
2 after the higher margin customers. It depends on what
3 the entry strategy is.

4 MS. WHITE: Well, I mean, would there ever be an
5 entry strategy that a competitor would want to go
6 after a customer who doesn't spend any money on --

7 DR. COOPER: But again -- well, historically, if
8 you go down that street and you want to reach out and
9 get the Commissioner, and you're doing it with a loop
10 that's been deployed and facilities that have been
11 deployed, well, you get the Commissioner first, and
12 then you discover this person over here, and having
13 deployed that, you start to look around and say, hey,
14 I'm going to cover some margin over here. And so as
15 you fill out your network, what do you do? You go for
16 more and more customers and you spread the costs
17 around.

18 So obviously people enter markets for higher
19 margin customers, but we've always believed that they
20 spread, and sometimes we try and force them to enter
21 markets and then they discover that, hey, they can make
22 money over here.

23 COMMISSIONER GARCIA: So AARP, there's no chance
24 AARP will file for a CLEC status to go after its
25 members or anything in Florida?

1 DR. COOPER: I haven't talked to AARP about that.
2 Now, when it comes to electricity, they may try and be
3 an aggregator. They do sell a lot of services. So it
4 may or may not be -- if the discounts were larger on
5 resale, they might.

6 COMMISSIONER JACOBS: Is it -- can we look at --
7 let's say we set the right price signals here, and kind
8 of borrowing off of Commissioner Garcia's question, if
9 we set the right price signals, can we really rely on
10 that to encourage the right entry, market entry, or are
11 there going to be other factors that --

12 DR. COOPER: I think there are many. I think the
13 idea of the right price in an industry with the
14 magnitude of joint and common costs you have in telecom
15 is extremely difficult, because in competitive markets
16 people will allocate around, so the simple idea that
17 there's a right price is misleading. If you put it up
18 high enough, you can get some folks to enter. But that
19 -- to us, that wasn't the point. And so we start from
20 where we are today. We think the rates are just, fair,
21 reasonable and affordable, and we say you need really
22 certainly the magnitude that people have talked about.
23 We don't see the reasons, the justifications for going
24 there.

25 Thank you.

1 MR. DOWDS: Dr. Cooper, another question.

2 Did I understand you to say that you thought that
3 staff should request that the LECs perform a bill
4 analysis?

5 DR. COOPER: Well, it's clear that the LECs have
6 command of their bills, they harvest their bills, we've
7 seen some of that in these -- in other states. We've
8 seen evidence from Indiana and so forth. What I would
9 like to do is not only have them harvest the bills and
10 give us a breakdown -- they may not have the
11 demographics, although, in Indiana, they said -- but
12 also make it available to the other folks to analyze,
13 much as the PSC staff survey was done. I mean, that's
14 -- you have -- reading through this testimony, you have
15 a broad range of assertions about who is going to win
16 and who is going to lose and who is going to be better
17 off and who is not, and all of that is entirely
18 dependent on what you assume about the nature of rate
19 rebalancing and what the structure of people's bills
20 are, and you ought to answer that question.

21 COMMISSIONER GARCIA: So what you're saying --
22 well, then, maybe you're going to clarify the question,
23 because I'm just curious --

24 MR. DOWDS: My question was, if you think we
25 should have a bill analysis done by the LECs, do you

1 have any specific pricing proposals that they should
2 evaluate?

3 DR. COOPER: No, because they need to show me the
4 structure of the bills and then I can figure out
5 whatever -- then you can ask yourself, if we do \$2 over
6 here and we don't let any go to business, see, which
7 was in significant measure the historical, quote, rate
8 rebalancing that went on, you get a different outcome,
9 because then you can say every dollar of increase in
10 basic service was passed through a dollar of decrease
11 in intraLATA toll. That's a different analysis than if
12 you send some off to vertical and send some -- but what
13 you need to know is the structure of people's bills,
14 and then anyone can ask the question, what happens if.
15 See, so what they need to produce is a clean set of
16 bills and say, here is whatever the number of bills
17 broken down by these groups as best we can get the
18 characteristics, and of course the question is how do
19 they -- their internal data doesn't tell me whether
20 it's a single elderly or a -- you have to -- it's not
21 an immediately easy process, although the pure
22 description of the bills can tell you what percentage
23 of the people spend \$5 on vertical services, and then
24 if you add a \$10 increase here and you draw vertical
25 services to zero contribution, complete rate

1 rebalancing, what does their bill look like at the
2 end? That's a simple arithmetic question.

3 MR. DOWDS: Do you have any suggestions as to the
4 kinds of questions we should pose of the LECs? For
5 example, I assume you're not asking us to submit a data
6 request to each Florida LEC that they provide a price
7 out of each and every service they offer. Do you have
8 any specific guidance as to what we should pursue?

9 DR. COOPER: No, no, I'm proposing a harvest of
10 the bills, which has been referred to in the data, and
11 say, you know, GTE or BellSouth, pull a random sample
12 of 2,000 bills and show me the breakdown to the extent
13 you have demographics -- they will not have
14 demographics so it won't get to the subtle questions
15 we've asked, but it will tell you exactly -- and then
16 you may or may not want this, but then you can match it
17 up against the survey responses, if it's a
18 representative basis, and see where, you know, did
19 people know they have call waiting or caller ID, at
20 least in the aggregate percentages.

21 MR. DUNKEL: If I could point out, in order to get
22 the total picture, you'd also have to know what bills
23 they're paying to the IXC. So the LECs are billing for
24 IXCs, you would also want that as well.

25 DR. COOPER: The data I have seen says that they

1 know that, too, and in most cases they bill for the
2 IXCs.

3 MS. WHITE: But -- this is Nancy White again with
4 BellSouth.

5 But how is that harvesting of bills going to tell
6 you who is elderly, who is --

7 DR. COOPER: No, it's not. That will not answer
8 the what I said is the subtle questions we have here.
9 It will just tell you in the aggregates, although
10 obviously I have seen testimony that says elderly do
11 this, and so obviously you can in fact match it up.
12 But then you have to do a survey and ask -- and again,
13 I'm not sure the data that you've seen -- sometimes
14 phone companies affix characteristics to telephone
15 numbers on the basis of census data because those are
16 high probability samples. We haven't cross-examined
17 the data from Indiana, for instance, but the simple
18 bill harvest gives you this aggregate, many, some, a
19 few, et cetera.

20 Thank you.

21 MS. MARSH: Thank you, Dr. Cooper.

22 We'll take a 15 minute break.

23 (Whereupon, a recess was had in the proceedings.)

24 MS. MARSH: Our next speaker is Bert Steele.

25 Bert, anytime you're ready.

1 MR. STEELE: Good afternoon. My name's Bert
2 Steele, and I'm the manager of pricing and tariff
3 support for GTE, and I've worked in the
4 telecommunications area for about 25 years, 15 years
5 being in costing and pricing, and the remaining time in
6 business planning, market planning, and some evaluation
7 work in engineering.

8 Over the next hour I'll address our cost study
9 submittal made in response to the special project, and
10 at any particular point you want to ask questions,
11 feel free to do so.

12 The Legislature requires the Commission to respond
13 by February of 1999 on fair and reasonable residential
14 rates and the relationship between a cost and charges
15 of service. In June of this year we received the data
16 request from staff, and Mark Calnon in his comments and
17 his presentation last week addressed the contribution
18 analysis, and this afternoon I'll provide a summary of
19 the comments that were prepared under my name and also
20 identified in response to the data request.

21 Now, the services that we addressed are residence
22 service, business service, GTE Centrex service, which
23 is called Centranet, toll services, switched access
24 services and vertical services. The agenda or format
25 that I'll follow is shown on this overhead. I'll start

1 out with the model that we networked to identify the
2 costs in response to the data request. I'll then spend
3 some time on a model that we used to identify the costs
4 called ICM, or the integrated cost model, followed by
5 economic concepts that surround our total service long-
6 run incremental costs, or TSLRIC.

7 I then follow with the assumptions that are
8 incorporated in our cost study so you have a clear
9 understanding of those, and then finally I'll conclude
10 with our cost studies themselves.

11 Now, the cost studies I have in the presentation
12 are not proprietary. This schematic shows the network
13 that was modeled in response to the cost study
14 submission at the end of July of this year. Across the
15 top you'll notice that there are residence and business
16 units, and on the side of those residence or business
17 units are a device called a network interface device,
18 or NID, and from this network interface device down to
19 the office that serves that customer within our cost
20 study submittal, that's identified as the loop cost,
21 pretty common language.

22 Now, you'll notice from the left-hand side of this
23 schematic that we have distribution facilities and
24 feeder facilities, and in our cost study submittal,
25 we've used copper technology for shorter loops, copper

1 technology including copper distribution cable and
2 copper feeder cable, and that's when the loops are less
3 than 12 kilofeet. And we've used a pair gain
4 technology which consists of copper distribution
5 cables, a pair gain device, and then fiber facilities
6 from the pair gain device to the central office for
7 longer loops.

8 Everything from the network interface device into
9 the central office, but not including the central
10 office equipment itself, that is a digital switch, is
11 identified in our cost study submittal as a loop cost.
12 We also identify the cost for our own switches in the
13 state of Florida, all of which are digital.

14 Not only do we identify the costs for a basic base
15 unit, if you will, a host office, but the remote
16 offices for that base unit, as well as our tandem
17 switch, which provides the gateway to provide
18 interconnection. The model identifies the costs for
19 interoffice transport that connects each of our
20 switches in the state of Florida.

21 And finally, we're using out of band signaling
22 with the SS-7 network to handle call setup. And you'll
23 see on the schematic, about six o'clock, an STP -- a
24 local STP which allows us to set up calls such as
25 originating access and terminating access in the

1 switched access area, or even a local call, an extended
2 calling service call that we have in this state.

3 GTE's preferred cost model is its own ICM, or
4 integrated cost model. Now, we had an opportunity in
5 July of this year, colleagues of mine, Dave Tucek, Mike
6 Matthews and Dave Burley, to visit with staff and other
7 parties here in Tallahassee to review the ICM model.
8 The ICM model produces long-run incremental costs, and
9 there are six modules that are shown in this overhead
10 that are provided with ICM.

11 The first four modules, a loop, switch, transport,
12 SS-7, these are investment modules designed to
13 determine the investment for these types of plant. The
14 expense module determines the expenses required to
15 support infrastructure as well as expenses required in
16 the name of depreciation or cost of money, and finally,
17 the model has a mapping or report module which allows
18 the user at a keyboard to define services and prepare
19 output reports, much like we prepared in response to
20 the data request.

21 Now, the ICM model is quite different than what
22 GTE has had in the past. It very much streamlines the
23 cost development process. In the past, an analyst
24 would incorporate the cost components and incorporate
25 the modules to address the question largely manually.

1 In ICM, the integration of cost components or the
2 integration of modules, and by modules, I mean loop
3 facilities with switching facilities and transport
4 facilities, is done by a PC computer, so when you're
5 sitting down at the keyboard, you can define a toll
6 service as being within a particular distance band, and
7 the model, through the use of a mouse and point and
8 click, will allow the user to specify, to pick up
9 switching costs, SS-7 costs, transport costs, et
10 cetera, to support that service.

11 This is the first model that we have had that
12 allows us to deal with both retail and wholesale
13 services in the same tool. When we use ICM, we can
14 identify costs for switched access, which is a
15 wholesale service, and we can also identify the costs
16 for R-1, B-1 and toll type services, which are retail
17 type services.

18 We provided a very extensive package in response
19 to the data request, and we believe ICM allows any
20 interested party to peel back the basic cost components
21 that are incorporated in the model, determine how those
22 cost components tie to our vendor contracts for both
23 labor and material, and validate, if you will, the
24 costs that are used by the model.

25 And finally, the model allows a significant amount

1 of sensitivity analysis. You can sit at the keyboard
2 and change the cost of money or change the depreciation
3 rate, change an item such as the labor cost to install
4 a pole, and within a short time period, determine what
5 the impact is on all of our infrastructure.

6 Now, this schematic I'll cover in detail, but it
7 provides, from left to right, the ICM process flow.
8 Starting on the left-hand side, we have commercially
9 available data that's provided to us by Stopwatch Maps
10 and PNR, which I'll get into in some detail, as well as
11 data provided by GTE, such as material prices and
12 tariff boundaries and the like.

13 Now, this basic core data feeds into the ICM
14 engine and allows us to produce cost components for the
15 various modules of loop, switching, transport, SS-7
16 and, of course, expenses. Once the cost components are
17 identified, a user at the keyboard defines what cost
18 components are required to support what basic network
19 functions.

20 In the ICM language, a basic network function is a
21 loop, for example, from the network interface device to
22 the central office. A line termination and a switch is
23 a basic network function. A minute of use that's
24 outgoing or incoming is a basic network function. And
25 all that is defined by the user at the keyboard.

1 Now, finally, the user is able to map those basic
2 network functions to services, R-1 service, PBX
3 service, toll service, et cetera, for both retail and
4 wholesale services.

5 Now, Stopwatch Maps provides us information that
6 something that's identified in our documentation is a
7 basic building block, a grid cell. A grid cell is
8 1/100th of a degree of longitude by 1/100th degree of
9 latitude, or approximately two-fifths of a square
10 mile. There's about 14,000 of these in our GTE
11 territory in Florida, served by 90 offices. This data
12 is assembled based on information provided by GTE,
13 which I'll get into in a few minutes, information
14 that's provided by PNR, and also other information such
15 as Tiger files, which are map info information telling
16 you how roads are laid out in our territory in Tampa --
17 excuse me, in Tampa and the surrounding area.

18 Next, please. This is the information that's
19 provided to us by Stopwatch Map at the grid level. We
20 provide road feet, also provide soil type, bedrock
21 depth and water table depth, the latter three of which
22 are determined -- or, excuse me, used by the model to
23 determine the additional labor costs that may be
24 required, such as cutting rock, or at a manhole site,
25 hitting water and having to have well points to drain

1 the manhole.

2 Next, please. Now, PNR provides us information on
3 residence and business lines. This is all provided to
4 us by Stopwatch Map at the grid level.

5 Now, the basic coordinator that comes from GTE is
6 covered on this slide. The material prices from our
7 vendor contracts or vendor quotes, all the information
8 on their labor activity rates, we have a process in
9 Florida, a single source provider contract for handling
10 outside plant facility installation. All that
11 information is directly input into the model as core
12 data from GTE. The longitude and latitude for each of
13 our offices is identified not only as input to the
14 model but also provided to Stopwatch Maps so they can
15 identify what grids, what geographic area is served by
16 what tariff boundary.

17 The model incorporates GTE's engineering design
18 criteria for loop, switching, transport and SS-7, and
19 finally, the expense module has as input ARMIS data.
20 So you can see how we tie to what we file with the FCC
21 and other regulatory commissions.

22 The loop module again handles everything from the
23 network interface device all the way to the customer
24 location. Distribution cables are analyzed at the
25 grid level and feeder cables are analyzed at the wire

1 center level. And, again, copper facilities are used
2 for shorter loops for both feeder and distribution,
3 and fiber facilities for feeder cable, and copper
4 facilities for distribution cable are used for longer
5 loops.

6 Now, this particular schematic is contained in the
7 user manual and shows you how we model, as an example,
8 feeder cable serving pair gain devices. And what you
9 see here is something that looks a lot like a
10 checkerboard. Central office is located at the center
11 of this checkerboard, and you'll notice the
12 checkerboard is broken into four quadrants, and for
13 convenience purposes, we've just laid out the network
14 in one of those quadrants.

15 Now, this whole checkerboard are areas about 900
16 square miles, so this is overlaid on each one of our
17 offices, allowing us to model a tree and branch
18 architecture for customers that live beyond the core
19 area of the central office and therefore are served by
20 pair gain devices.

21 Now, the switching module analyzes costs for our
22 host and remote offices. The model is vendor- and
23 technology-specific in terms of its inputs, and can be
24 expanded to handle additional technologies as well as
25 additional inputs in terms of size of switch.

1 The size of the switch that we look at for the
2 host office ranges from 700 lines to 60,000 lines, and
3 the remote offices range from 1,300 lines to 3,750
4 lines. And all the information contained in the model
5 ties to our vendor contracts or vendor quotes for the
6 Lucent Technology switch, the Nortel product line, as
7 well as the AG Communications Systems product line.
8 The transport module identifies the investment for all
9 the interoffice transport connecting switches
10 together.

11 We use the SONET ring topology in the model to
12 connect base units for a maximum of eight nodes fit on
13 a ring. You'll see this in the example. You'll see
14 end offices that are on a ring, and the gateway to
15 leave the ring or enter the ring is via our tandem
16 office in Tampa.

17 We also have a number of remote offices in the
18 state, and the way those are modeled in ICM is point-
19 to-point SONET facilities, just as indicated in the
20 schematic.

21 And, finally, from an investment module
22 perspective, we analyzed the SS-7 network for out-of-
23 band signaling. Our costs for toll, a switched access,
24 local service calls for ECS service all require out-of-
25 band signaling, and the out-of-band signaling is

1 analyzed with our local STPs to handle call setup.

2 The expense module provides all the expense
3 information to support our infrastructure. The expense
4 module also includes costs of capital, including
5 depreciation, return and income taxes.

6 Now, there are four basic methods that are used in
7 the expense module. The first one is the functional
8 cost pool approach where we identify what the costs are
9 that support a particular category of plant, such as
10 switching or such as electronics on the end of fiber
11 facilities, and from that information we derive the
12 relationships that exist between the expenses and the
13 investments that are identified in the model. There's
14 also activity-based analysis that's performed by our
15 expense team in conjunction with Arthur Andersen, and
16 this activity-based information is provided for
17 marketing, sales and advertising, and it's also
18 provided for certain portions of our network where
19 costs can be identified, such as for switching,
20 termination requirements on switches, et cetera, all of
21 which is documented in our filing package.

22 We identify the capital costs and tax factors, the
23 actual formulas of which are contained in the user
24 manual, which I think is the second manual we filed in
25 our July submittal, and the cost of capital includes

1 both depreciation and return on capital.

2 And finally, we have several external studies in
3 the billing collection and directory area which are
4 developed by GTE and Arthur Andersen and are input to
5 the model.

6 MR. OCHSHORN: Mr. Ochshorn, I'm Ben Ochshorn,
7 Florida Legal Service. I have had the good fortune of
8 receiving several boxes of your stuff, and I have a
9 few questions and I think they relate to the part of
10 the presentation you just made.

11 What's the period of time that GTE looks at to
12 figure out if costs -- you mentioned long run. What
13 period of time?

14 MR. STEELE: That's a good question. Really,
15 there's no time period that's used, as a matter of
16 fact. That's really one of the misconceptions that
17 happened in much of my younger years at school.

18 MR. OCHSHORN: Okay.

19 MR. STEELE: What we mean by long run is that
20 there really are very little, if any, constraints.
21 Only those that are practical, which I'll cover in a
22 minute. And that -- by that I mean, and we'll cover
23 this in a few minutes, we're not ignoring investment
24 capital. We've identified in the model not only the
25 expenses associated with the infrastructure, but the

1 capital as well.

2 MR. OCHSHORN: So does this mean that all the
3 costs are captured in the first year of operation and
4 that after you've paid for those costs, then you can
5 use the network an indefinite period of time, or does
6 it mean something else?

7 MR. STEELE: It means something else. It means
8 that all the costs are captured both in terms of
9 capital and labor, but that through depreciation rates
10 of cost of money, we've annualized those so that those
11 costs can be expressed over a time period.

12 MR. OCHSHORN: And do the time periods vary or are
13 they related to the length of time that you use to
14 depreciate different parts?

15 MR. STEELE: They relate to the length of time
16 that's indicated in our depreciation life. It's the
17 same as what we used in the USF docket and covered in
18 Mr. Al Sovereign's testimony.

19 MR. OCHSHORN: Okay. Thank you.

20 MR. STEELE: You're welcome.

21 MR. DUNKEL: I have one question. You're showing
22 billing and collection costs there at the bottom line.
23 Is it a correct statement that if there was a bill
24 sent that was a bill for local service, that billed
25 for call forwarding, billed for toll calls, billed for

1 an IXC, that in that cost you would take all of the
2 cost of the envelopes and the first unit of postage
3 and put that on basic exchange service?

4 MR. STEELE: Well, let's break that down a piece
5 at a time.

6 Billing for IXC service is a separate billing
7 system, and the bills are provided to interexchange
8 carriers. So if you're talking about --

9 MR. DUNKEL: The bill you send to the customer,
10 you send to the customer a bill and it's got several
11 services they're being billed for, and there's a --
12 one stamp. You don't use stamps, but the first unit
13 of postage, you put all of that cost on basic exchange
14 services, is that correct or not correct?

15 MR. STEELE: That portion of the cost to establish
16 the initial bill, yes, is on the local exchange
17 service. Any additional postage requirements to
18 handle toll or other services --

19 COMMISSIONER GARCIA: I think he's trying to be
20 more specific. The question is, do you bill for
21 vertical services, the vertical service issues, if I'm
22 not mistaken, are they attributed to any other cost of
23 that bill or is that bill paid by the basic service
24 only? In other words, when you have vertical
25 services, say caller waiting -- what do they call it?

1 The poor man's second line -- in that case do you say,
2 well, that percentage of the bill that we are
3 charging, you know, we're making a huge profit on, do
4 we attribute some of that to the bill that it rides
5 on? I know that you -- to some degree you have to
6 cost allocate for long distance, if I'm not mistaken,
7 when you're billing for it, but for the vertical
8 services that you provide your clients, do you in some
9 shape, way or form allocate to those other services
10 which are not regulated?

11 MR. STEELE: There were no allocation of billing
12 and collection to the vertical services -- excuse me,
13 regulated services that we have. Those costs for
14 billing and collection are only identified for toll
15 services based on call setup. Each call that's set up,
16 there's a bill processing that takes place, and also we
17 have billing and collection for the basic residential
18 and business and PBX and Centrex services, but no
19 additional billing and collection costs were identified
20 for vertical services such as three-way calling and
21 other custom calling services.

22 MR. DUNKEL: Okay. So going back to my question,
23 let's assume a residential customer gets a bill and
24 there's only the first unit of postage, I don't know
25 what you pay for that, but let's say it's 30 cents, and

1 that's all you paid for postage, and they open up the
2 bill, there's a local bill, a vertical service, some
3 toll calls in there, all of that 30 cents would be
4 called a cost of basic exchange service in your study.
5 Is that a true statement?

6 MR. STEELE: A significant portion of it is.
7 There is some cost allocation that takes place for
8 toll, as I said.

9 MR. DUNKEL: Only if you go over 30 cents, isn't
10 that correct?

11 MR. STEELE: Only if you go over the 30 cents,
12 that is correct.

13 MR. DUNKEL: So if there's one stamp on there, you
14 call that entirely the cost of basic, even if it's
15 billing for toll and others, correct?

16 MR. STEELE: That's the way it's been submitted in
17 the filing, that's correct.

18 MR. DUNKEL: And the same with the cost of the
19 envelope?

20 MR. STEELE: Yes, that is correct.

21 MR. DUNKEL: Thank you.

22 MR. STEELE: In the mapping and report module,
23 this is the area where we as users get the opportunity
24 of identifying what cost components should be mapped to
25 what particular services, and the first step that we

1 have in the process for identifying the total service
2 long-run incremental cost is first to map cost
3 components to basic network functions and then to map
4 those basic network functions to services, such as
5 residential service, business service, PBX service,
6 Centranet service, et cetera.

7 Now, the components that are identified in the
8 output report are what you see here. First we start
9 out and identify the investments, we identify the
10 depreciation return, the income tax, maintenance and
11 support marketing, and then billing and collection and
12 directory.

13 I said earlier that our preferred cost model is
14 GTE's own ICM model. This particular model is
15 attractive to GTE for a number of reasons which I'll
16 get into in a few minutes.

17 First is that all the input to the model in terms
18 of material prices and labor prices are input to the
19 model with little averaging or manipulation, if you
20 will. Let me give you some examples.

21 Our vendor contract prices for materials, outside
22 plant materials, specifically identify the cost for
23 strand, for anchors, guys, et cetera, all of which are
24 input to ICM as separate costs that GTE incurs to buy
25 these from our vendors. We have less than a half a

1 dozen single source provider labor contractors in the
2 state of Florida that provide installation of outside
3 plant facilities. Those contracts have codes in them
4 that identify the cost to install telephone poles, to
5 install fiber cable, the cost to cut bedrock, et
6 cetera. All those cost components without averaging
7 have been input into ICM, allowing the process of
8 mathematics to take place in ICM and not through
9 averaging external to the model. That is particularly
10 attractive to GTE.

11 In addition, we've incorporated in the model our
12 own engineering standards and practices that apply in
13 the state of Florida.

14 And finally, the model is an integrated model. By
15 this I mean it allows us as a user to recognize that
16 the costs for a telephone pole, as an example, are the
17 same whether they're used for loop facilities or
18 interoffice transport facilities. In addition, it
19 provides external integrity, if you will, allowing any
20 user to go into the ICM model and support material and
21 analyze the data and validate the reasonableness of
22 that data as well as the engineering practices that are
23 used by the model.

24 Let me spend a few minutes on what we mean by
25 total service long-run incremental costs, and then I'll

1 follow up that with the assumptions that underlie our
2 cost studies themselves.

3 When we talk about total service long-run
4 incremental costs, we first break that down into what
5 do we mean by total service. And what we mean by total
6 service is we capture both the volume-sensitive and
7 volume-insensitive costs, all the costs that are
8 associated with that service.

9 From a long-run perspective, as I said earlier,
10 we're addressing not only the expenses, but the capital
11 costs, so there are no costs that we would assume that
12 are sunk in this analysis.

13 And finally, from an incremental cost perspective,
14 we analyze all the costs that are incremental with the
15 particular unit of service that we're analyzing.

16 Now, these are -- this particular slide outlines
17 the major assumptions that are used in the model. We
18 believe that these assumptions are realistic and
19 consistent with the proper measurement of our total
20 service long-run incremental costs for GTE in the
21 state of Florida.

22 First is that the material and labor prices that
23 are included in the model are based on vendor contract
24 prices that exist today. This is true for both labor
25 and material.

1 Second is the technologies that are selected, the
2 actual equipment is based on those technologies, those
3 products that we're buying today from vendors. We have
4 not made any speculation concerning technology change
5 down the road, any speculation about technologies that
6 do not exist today and are not used by GTE, nor have we
7 speculated on prices with our vendors for labor and
8 material. It's the current price information that
9 we're using, current price information that's in
10 existence today.

11 The cost studies that we submitted here have some
12 inputs for both depreciation and cost of money.

13 Yes, question?

14 MS. BUTLER: I'm hoping that this question makes
15 sense, but you said that you're assuming that there
16 were no sunk costs. Are you saying that there are no
17 -- that you're not measuring the incremental cost of
18 sunk costs, or that there are no sunk costs that are
19 incremental?

20 MR. STEELE: I'm saying that I've captured all the
21 costs that are incremental with the service offering.
22 To the extent that there are sunk costs from an
23 economic perspective, they would be the difference
24 between the historical cost that the company has
25 realized and the cost that I'm identifying here as a

1 TSLRIC.

2 For example, let's take the can of Coke that you
3 have sitting in front of you. I did not ignore all the
4 production costs that's necessary to put the metal
5 together to form that can, I picked all that up, and I
6 picked up all the costs up for printing that can, and I
7 also picked up all the costs to fill that can with the
8 Coke fluid. All that cost information is identified as
9 both capital and labor in our cost study submittal.

10 MR. OCHSHORN: Mr. Steele, so your model estimates
11 what it would cost to build and run a network from
12 scratch?

13 MR. STEELE: I don't typically use that
14 terminology, but I think that's a fair
15 characterization.

16 This morning Dr. Harris gave an example with an
17 airplane, I believe. We said we're not measuring the
18 cost for an additional seat on the plane. Rather,
19 we're measuring the cost of the entire airplane. And I
20 think he had a hundred seats on one of his examples?

21 MR. OCHSHORN: Right.

22 MR. STEELE: And that would be the case here as
23 well.

24 MR. OCHSHORN: Right. So you're taking all these
25 inputs and -- based on your actual costs and then

1 are different between remote and host offices.

2 And finally, these cost studies do exclude our
3 common costs. The issue of common cost was addressed
4 in the contribution analysis by Dr. Calnon in his
5 comments and in his presentation last week.

6 Now, GTE is very concerned about a notion of least
7 cost or efficient firm, what that really means, and
8 wants to make it clear really what GTE advocates and
9 accepts as sound economic principles.

10 Now, we do not believe that it's appropriate to
11 pick and choose your input prices for material and
12 labor. We believe it's appropriate to use the
13 company's actual costs, that is, GTE's costs in the
14 state of Florida for material and labor. The costs
15 that we have incorporated in the ICM as input are based
16 on our actual contracts we have today. We do not
17 believe that the notion of least cost or efficient firm
18 means that we should go to the operation that GTE or
19 another LEC has in another state and pick up that cost,
20 and then go to another state and pick up the labor
21 cost.

22 Go to the next slide, please.

23 This is the analogy that I cover in my comments.
24 We have a provider A where provider A has a low per
25 minute rate and also has a \$5 per month recurring

1 charge, and we have provider B that has a high per
2 minute rate with no monthly recurring charge. And this
3 type of packaging, if you will, is very commonplace
4 with GTE's contracts with vendors for both material and
5 labor, and the question we asked ourselves and is shown
6 at the bottom of this slide, is, is it realistic to
7 believe that the company can obtain the lower per
8 minute charge from provider B, or that provider A will
9 drop the monthly charge? And in the corner, upside
10 down, and the answer is obviously no, and one of the
11 problems we face with using costs from other companies
12 or using costs that's not based on sound empirical
13 data.

14 Next, please. I'll spend some time summarizing
15 the cost studies that we submitted.

16 The format that's shown in this slide of our costs
17 is the same as that prepared by GTE in the July
18 comments supporting our contribution analysis. That
19 is, the contribution analysis began with residential
20 flat rate service, business service and PBX service.
21 Now, the business and PBX services, consistent with the
22 contribution analysis, provides significant
23 contribution to residential services.

24 Next, please.

25 We also identified the costs for Centranet

1 service, or Centrex service. This includes both
2 digital and analog service, digital being ISDN, BRI,
3 and we provided the intrastate switched access services
4 as well, which are listed at the bottom of this slide.

5 The intrastate switched access services provide,
6 again, a significant contribution.

7 MR. DUNKEL: I have a few questions here. For
8 switched access, is it a fair statement you did not
9 include any portion of the port or loop costs in that
10 -- those costs you show for switched access?

11 MR. STEELE: That is correct, there is no port or
12 loop costs there.

13 MR. DUNKEL: And going back to your prior slide
14 where you show the TSLRIC cost for residential basic,
15 is it a correct statement you did include the full
16 port and loop cost in those numbers?

17 MR. STEELE: That is a correct statement.

18 MR. DUNKEL: Okay. And is it a correct statement
19 that if we looked at TSLRIC costs of residential,
20 excluding port and loop, that most of the costs you
21 show there would be gone?

22 MR. STEELE: A substantial portion of the cost to
23 establish this --

24 MR. DUNKEL: At least \$20, \$25 would be gone,
25 somewhere in that area?

1 MR. STEELE: Over 50 percent of those costs are
2 for the loop.

3 MR. DUNKEL: At least \$20 of the \$29 would be
4 gone?

5 MR. STEELE: At least \$20.

6 MR. DUNKEL: Thank you.

7 MR. STEELE: You're welcome.

8 Next, please.

9 We identified the costs for features in response
10 to the data request. These are vertical services or
11 switch features which also provide significant
12 contribution.

13 And finally, for GTE's toll service, this toll
14 service as well provides significant contribution.

15 MR. OCHSHORN: In your model, what costs went into
16 providing these features?

17 MR. STEELE: These costs include all of the basic
18 resource costs required for memory to support the
19 feature, any processing time to handle the feature
20 based on the usage that we're actually experiencing
21 today. Some of these features require special
22 hardware, such as in the case of call waiting, and
23 depending on the vendor that supports the product.

24 MR. OCHSHORN: By minutes of use you made some
25 measure of what percentage of time or whatever a

1 particular service uses, a particular cost item?

2 MR. STEELE: Yes, based on busy hour traffic
3 studies which measure a measurement of minute of use.
4 It's actually called busy hour CCS and busy hour call
5 attempts.

6 MR. OCHSHORN: Thank you.

7 MR. STEELE: Exactly.

8 MR. DUNKEL: And on the features costs, that
9 includes no part of the port or loop costs, correct?

10 MR. STEELE: There are no allocations of loop
11 costs. All the loop costs are directly assigned to
12 residential service.

13 MR. DUNKEL: Okay. And the toll cost you show
14 includes no cost of port or loop, correct?

15 MR. STEELE: No, there is no cost for the port or
16 loop in the toll cost. All the port costs and all
17 the loop costs in our complete cost submittal are
18 included with basic service.

19 MR. DUNKEL: But the TSLRIC of basic does include
20 the loop and port costs?

21 MR. STEELE: Yes, that's correct.

22 MR. DUNKEL: Thank you.

23 COMMISSIONER DEASON: Excuse me, the cost for the
24 features, are those monthly costs, or that's cost per
25 utilization of that feature?

1 MR. STEELE: Those are monthly costs per line. If
2 you subscribe to three-way calling, the TSLRIC for
3 that is \$1.39.

4 COMMISSIONER GARCIA: That cost of caller ID, for
5 example, would you be able to break that out for me,
6 or no? That cost of 55 cents --

7 MR. STEELE: If I looked it up, I could give you
8 the precise numbers, but I can tell you what's in it.

9 COMMISSIONER GARCIA: Okay.

10 MR. STEELE: Caller ID requires a certain amount
11 of memory. We have to on the record identify for your
12 number, for example, how many words of memory are
13 required to support that feature. We have to allocate
14 a space, if you will, on the switch to support that
15 feature. And that's true of almost every feature we
16 use.

17 Now, when you have a caller ID activated, there's
18 a certain amount of processing. The switch has to
19 extend instructions to the switch on how to handle the
20 call, so there's a certain amount of processing time
21 that's required, usually measured in half calls or
22 milliseconds, but processing costs much like your PC
23 computer, or for billing in a billing system. There
24 are no special hardware costs that I can think of for
25 the three vendors that we use for this product, so 90

1 percent of the cost is going to be processing cost and
2 memory cost required to support the feature.

3 MR. OCHSHORN: Mr. Steele, I have one more
4 allocation question having to do with figuring out the
5 cost of business versus residential service. Mr.
6 Dickerson in his testimony gave an example of a number
7 of different grids with different estimated prices
8 based on the model and then a certain number of
9 business and residential lines within each grid, and
10 then based on where the different lines landed and
11 which, you know, how expensive a grid, that would
12 determine how you'd calculate the cost of business and
13 residential service.

14 Did you use the same approach?

15 MR. STEELE: Well, let me explain the approach
16 that we used and we'll see if it's different.

17 MR. OCHSHORN: Okay.

18 MR. STEELE: The model identifies distribution
19 cable for each of the 14,000 grids that we have and
20 aggregates that information up to each of the 90 --
21 approximately 90 wire centers that we have in the
22 state, as well as feeder cable. So we're able to
23 identify in the model the cost for residence and
24 business loops and features, if you will, that are
25 supported by each of our 90 or so CLLI codes that we

1 have, or wire centers in the state.

2 Now, we aggregated that information in response to
3 the data request into our rate groups that we have in
4 the state to perform the contribution analysis
5 undertaken by Dr. Calnon. But we have wire center
6 specific costs nonetheless, for both residence and
7 business.

8 MR. OCHSHORN: Are these costs that are produced
9 by your model or are these like your -- in some way,
10 your actual costs?

11 MR. STEELE: These are costs produced by the
12 model, aggregated up from the bottoms up, if you will,
13 based on analysis of distribution and feeder facilities
14 by CLLI code or wire center.

15 MR. OCHSHORN: Okay. So would it necessarily be
16 the same wire centers that you actually have, or would
17 it be the wire center system that the model determines
18 would be the way you would build it if you were
19 building it anew?

20 MR. STEELE: From a demand perspective is what we
21 have. If the office says 22,000 lines that it serves,
22 that's what we model. If the remote device off of
23 that office says 1,000 lines exactly, that's what we
24 model.

25 MR. OCHSHORN: All right. So it's based on what

1 the model says would best meet the demand?

2 MR. STEELE: What the model says is required in
3 terms of investments and expenses to support that level
4 of demand, the current level of demand.

5 MR. OCHSHORN: Thank you. I think I understand.

6 MR. STEELE: Any other questions?

7 MR. DOWDS: Could you go back up to page 25 where
8 you've shown the LRIC costs for the loops? Do you by
9 any chance know what accounts for the little blip on
10 rate group 3 for the residence cost? That --

11 MR. STEELE: Yes, I'd have to look at that --
12 there's two of the rate groups that have extended
13 calling service, and our interpretation of the statute
14 is that extended calling service should be included in
15 the analysis. And when you go back to the support
16 material, it actually peels that back to tell you what
17 portion of that is extended calling service and what is
18 not.

19 MR. DOWDS: By extending calling service, do you
20 mean the trunk groups or actual ECS usage?

21 MR. STEELE: The actual ECS usage.

22 MR. DOWDS: Okay. So an apples-to-apples
23 comparison for the cost, say, of rate group 3, in all
24 likelihood, you'd have to compare the access line
25 charge plus the average ECS usage charges that a

1 customer incurs?

2 MR. STEELE: Exactly.

3 MR. DOWDS: Okay.

4 COMMISSIONER DEASON: So you're saying it would be
5 cheaper from a cost -- purely cost analysis
6 perspective to not have ECS but just have a greater
7 calling area EAS, is that correct?

8 MR. STEELE: No, I'm not saying that.

9 COMMISSIONER DEASON: Well, it appears that the
10 greater the -- ignoring -- you said that the
11 aberration was due to ECS, and then it looks -- it
12 appears like the greater the rate group, which means
13 the greater the number of lines that can be called,
14 the cheaper it is. So you can't conclude then that
15 the greater the calling scope, the cheaper the
16 services?

17 MR. STEELE: Are you talking about the business
18 flat rate and the business multi-line?

19 COMMISSIONER DEASON: I'm looking at residence
20 flat rate, rate group 5, or is that a function of the
21 relative length of the loops for those rate groups?

22 MR. STEELE: Well, it's going to be a function --
23 if you're talking within a rate group, it's going to
24 be a function of those wire centers that are supported
25 by that rate group as well as the loop length.

1 COMMISSIONER DEASON: We've had testimony from a
2 number of customers in our public hearings, and they
3 look at the analysis that we've presented to them, that
4 being average basic rates in Florida for various cities
5 compared to other cities in the southeast, and some of
6 those customers indicate, well, that has no relation
7 whatsoever to their local bill because they have 50 ECS
8 calls and they really consider that part of their local
9 service, and if you did that comparison, their rate's
10 not ten or twelve dollars a month, it's \$27, \$30 or \$35
11 a month.

12 Do you have any reaction to that?

13 MR. STEELE: Well, I know that the contribution
14 analysis that was undertaken by Dr. Calnon did include
15 revenues for ECS, and those revenues are not targeted
16 to a particular customer since -- that have a lot of
17 ECS usage versus not any ECS usage. What it is is it
18 recommends -- excuse me, what it shows for that
19 particular customer class, the average number of usage
20 minutes and calls required for ECS.

21 Any other questions?

22 Thank you.

23 MS. MARSH: Thank you.

24 We have one more speaker today and as soon as we
25 can get her set up, we will continue.

1 (Whereupon, a pause was had in the proceedings.)

2 MR. POAG: Excuse me, Mr. Steele, just one more
3 question. The rates that were talked about by the
4 other states, they would not include any extended
5 calling that they had in those rates either, would
6 they?

7 MR. STEELE: I wouldn't think so. That was our
8 interpretation of what was required in response to the
9 data request from reading the statute.

10 MR. POAG: Okay, thank you. Ben Poag with Sprint.
11 (Whereupon, a pause was had in the proceedings.)

12 MS. CALDWELL: Okay. I guess we're ready.

13 First of all, my name is Daonne Caldwell, I work
14 for BellSouth. I'm a director in the finance
15 department and I'm responsible for the cost studies
16 that have been filed in this particular proceeding, all
17 of the TSLRIC studies.

18 We've studied everything from 1-FRs to 1-FBs,
19 switched access within the state, intraLATA and then --
20 let me move this down for a second -- and we've also
21 studied the intraLATA toll. I think those are the
22 biggest ones. BellSouth also provided an ESSX and a
23 multi-serves arm study that's associated with our
24 Centrex, and I'll talk just a little bit about how we
25 did that because we did that one a little bit

1 differently from our other studies.

2 I am the third cost person you've heard today, so
3 I'm going to try to speed through some of the same
4 things you've heard and point out where we're the same
5 and then maybe where we're different so you can get
6 those areas laid down, and particularly for the staff,
7 for some of the things you'll look for in this data
8 that may be a little different.

9 Excuse us. This is the first time we've used
10 this. It's slow. Page up. Can you page it up?

11 Okay. These are --

12 A VOICE: I'm sorry.

13 MS. CALDWELL: That's okay. Just take your time.
14 It will be fine, because I'm going to talk about the
15 TSLRIC because that's the type studies that we've
16 done. Our cost methodology, that's where I'm going to
17 start.

18 Basically what we've looked at in terms of our
19 cost methodology is the studies of forward-looking.
20 I've used forward-looking technology. For instance, in
21 the loop, if a loop was greater than 12 kilofeet in
22 length, we have converted that, even though it's on
23 copper today, we have converted that to be served by a
24 digital carrier to make it a more economical, more
25 forward-looking design. We only used digital switches

1 in our study. We used no analog switches, even though
2 we may have some in service. So those are the type
3 changes we've made to make the study forward-looking.

4 In terms of long-run, basically I think Mr. Steele
5 explained that fairly well in terms of the long-run in
6 that we have considered that every piece of equipment
7 in the network is going to exhaust, so we have no sunk
8 costs. We have considered that we need to increase the
9 capacity of those particular facilities, so we have
10 included that cost on a per-unit basis in our study.

11 Now, also in terms of long-run, BellSouth does one
12 additional thing, in that we look at a future three-
13 year time frame. Our time frame is 1998 through 2000.
14 We have looked at that for labor rates. We have looked
15 at the change in the amount that would be paid for
16 benefits as well as salaries for individuals in terms
17 of the labor rate. In terms of the equipment, we have
18 looked at both increases and decreases in equipment.

19 For instance, you have telephone plant indices
20 that show that your copper facilities are going to
21 increase in price over time. We have included that for
22 a three-year time frame. And then we show that fiber
23 is going to go down, and so is digital loop carrier, so
24 we have included those decreases. So you have them
25 kind of offsetting each other, but both are included in

1 the study.

2 In terms of both the fixed and the volume-
3 sensitive, what you really have here is we have looked
4 at all the costs associated with providing the
5 service. That's what TSLRIC means. If it has volume-
6 insensitive costs, we have included those, and of
7 course we have the volume-sensitive costs.

8 Based on cost causation, in other words, the fact
9 that we provide this service, we incur these costs, I
10 like to think of it in the fact that if we did not
11 provide the service, what would we not have to incur in
12 terms of costs, in other words, what costs could be
13 avoided, and that's how we've looked at our studies.

14 And then as with everyone else, we excluded all
15 shared and common costs. There's no executive, no
16 legal, no accounting type costs in our studies.

17 This is to -- let me see if we can get back one
18 more, because I -- okay.

19 In terms of volume-sensitive, the true definition
20 means that the costs are going to vary with the next
21 units that join the cell. In other words, it is
22 strictly dependent upon volume. That is our long-run
23 incremental cost.

24 When you look at the volume-sensitive plus the
25 volume-insensitive, we then move to something called

1 TSLRIC. You use mainly your LRIC sometimes if you are
2 just testing prices to set your price floor when you're
3 looking at whether or not you're going to change prices
4 of your service. Your TSLRIC is more or less the cost
5 you're going to look at if you're looking at whether or
6 not you're going to be providing that particular
7 service. The best way in the economic theory is going
8 to tell you that TSLRIC is always the test for cross-
9 subsidization, that over and above that, to get to any
10 company's total cost, you're going to have to look at
11 the shared and common costs. I just put that on there
12 to emphasize that when you're looking at costs,
13 stopping at TSLRIC for all your services would never
14 make your company whole. You've got to pick up those
15 shared and common somewhere in your recovery mechanism.
16 Okay?

17 Just to emphasize here where the common costs fall
18 in, one of the things I wanted to point out is how we
19 have used or excluded the shared costs in some of our
20 studies. I have two products, A and B. They're
21 volume-sensitive, volume-insensitive, I think we've
22 pretty well covered that. Then I have, I have shared
23 costs for that family. An example of this would be a
24 right-to-use fee in the switch. Vertical features I
25 could consider to be my family of services, and if I

1 had a right-to-use fee that was to be used for vertical
2 features -- and what is significant here is that we did
3 not study every vertical feature. We studied, I
4 believe it's the 11 major vertical features offered,
5 major I mean by the highest penetration that the staff
6 asked for, so if there was a right-to-use fee that was
7 shared by other vertical features rather than just
8 those 11, we excluded that. So that's the type costs
9 we excluded on the shared. The common, the executive I
10 think is probably the best example of that.

11 Okay, now I want to get into a little bit about
12 how the costs are calculated. If you look in
13 particular at my comments, I go through the steps in
14 calculating recurring and nonrecurring costs. I'm
15 going to hit them at a high level here to tell you what
16 we've actually done to -- in our studies, and I'm going
17 to concentrate on the flat rate residence, and this
18 also would be applying to the flat rate business, but I
19 think that's where most of my emphasis has been, so I'm
20 going to stay with that. And then you can -- all the
21 other services would fall very similarly.

22 First of all, for the local loop, what we have
23 done is we have used the BCPM 3.1 model. Now, the
24 methodology that we use is similar to the methodology
25 that we have used in every tariff filing before this

1 Commission for the last several years, the TSLRIC or
2 the long-run incremental cost study, and we've used
3 some of the very similar models. You'll see some of
4 them repeated here, such as SCIS. This will be the
5 first time we have used BCPM to study a retail
6 service. In the past we have always used our loop cost
7 model in a statistically valid sample of the loops in
8 the state of Florida. We wanted to provide the costs
9 this time on a disaggregated by rate group level. That
10 sample does not provide the data. It is not
11 statistically valid below the statewide level.

12 So in order to provide the cost in that much
13 detail, we moved to the BCPM, and that's the same
14 model, same version that we're filing in the USF, same
15 basic inputs in the USF. Now I'll go through a couple
16 of the changes that we have made for that.

17 The actual calculations from the BCPM gives us the
18 investment by rate group. It is weighted, just as Mr.
19 Dickerson explained to you this morning. It's the same
20 type weighting that we're using. One of the things,
21 though, that we did recognize is that in the universal
22 service fund, it's a cost proxy model, and it clearly
23 states you need to be looking at an environment in
24 which it is pure scorched earth or scorched node
25 because the switch stays where it is.

1 So in looking at that, we wanted to use not all of
2 BCPM, but our TELRIC calculator that I'm going to talk
3 about in a minute. So to make the two lay down, we
4 made the following adjustments: We did not use any
5 land and buildings. We did not use any pole and
6 conduit calculated by BCPM. We used our normal loading
7 factors in this study. So that would be a difference
8 between the numbers you see in USF, when and if you try
9 to compare them. It's not a big -- I don't think a
10 real significant difference in that we just calculate
11 them differently; however, our pole and conduit
12 loadings have a tendency, I think, to recognize a
13 little bit more economy of scale and scope from the
14 fact that you are already an incumbent LEC, which I
15 feel would be very appropriate here.

16 And basically, as we've discussed, that investment
17 comes from the facilities that go all the way from the
18 NID to the main distributing frame, just -- it actually
19 stops just before you hit the MDFM switch. Okay.

20 Moving on to local switching, local switching, we
21 used the SCIS model, which is the Bellcore model which
22 has been filed here before. We made a capacity run on
23 that model, and that assumes then that all your
24 switches will exhaust. And in addition to that, we
25 included any right-to-use fees that would be

1 appropriate. I believe it's in the five ESS office we
2 have a right-to-use fee that is a per line right-to-use
3 fee, so we included that one right-to-use fee in the
4 1-FR.

5 In terms of we discussed the costs associated with
6 the features earlier, the features would have not only
7 the costs that were explained in terms of the usage off
8 the switch itself, the processor, and any capacity
9 change, if there was a right-to-use fee that was
10 specific to that feature, we would have included that.
11 I believe you'll see that mainly on caller ID Deluxe
12 and some of those features.

13 MR. OCHSHORN: Ms. Caldwell, Ben Ochshorn for
14 Florida Legal Services.

15 You probably said this very clearly, but what
16 costs are you not including based upon your status as
17 an incumbent LEC?

18 MS. CALDWELL: All I'm saying is we did not use
19 the pole and conduit and land and building loadings
20 that's in BCPM.

21 MR. OCHSHORN: So does that mean you're not
22 including the cost of the poles?

23 MS. CALDWELL: No, sir. We do include them; we
24 calculate them differently. What we do to calculate
25 those is we look at a relationship between the embedded

1 investment that we have and how much -- say, for
2 instance, to make it a clear example, how much pole
3 investment we have as it relates to area plant, and
4 then we make an adjustment for a three-year planning
5 period. Because you don't want to just look at
6 embedded, that's going to change over time. So we
7 adjust it for what we have budgeted for the three
8 future years. Okay?

9 MR. OCHSHORN: Okay. I think.

10 MS. CALDWELL: Okay. All right. And then the
11 last item we're going to talk about is the local
12 usage. We have used our switching network calculator,
13 which is the same model we introduced in the unbundled
14 network element studies here a few months ago, and that
15 includes the cost of all of the -- we assume a 100
16 percent fiber network on SONET equipment, which is the
17 most currently available forward-looking technology,
18 and we pick up all the costs from the end office to end
19 office.

20 Let's go to the next slide. I believe --

21 MR. DOWDS: Ms. Caldwell, a real quick question.
22 You indicated with respect to the 5-E switches that
23 there's a per line right-to-use fee and you include it
24 in the 1-FR cost analysis. Did you also include it in
25 the cost analysis for 1-FB and the other access lines?

1 MS. CALDWELL: Yes, I did. Anything that used the
2 line, it's included.

3 COMMISSIONER GARCIA: Explain to me what you mean
4 by the right -- make it a little bit clearer, the
5 right-to-use fee.

6 MS. CALDWELL: For instance, it is a fee that is
7 paid to a vendor for the use of the software.

8 COMMISSIONER GARCIA: Got you. Okay, I've got
9 you.

10 MS. CALDWELL: Okay. This is a drawing that just
11 indicates the components of the network and it kind of
12 helps me get a little bit better to the local usage.

13 To begin with, you pick up on the far left with
14 the NID, and in our loop study we have the NID, the
15 distribution facilities, if it is on digital loop
16 carrier, we have digital loop carrier, then we have our
17 feeder facilities and we bring it into the central
18 office. That is the termed loop. Once in the central
19 office, it's got to connect to something, so it
20 connects to a port, or the old term is the non-traffic
21 sensitive portion of the switch. It picks up a
22 termination on the main distributing frame with the
23 protection that's involved there, and then it also
24 picks up a termination into the switch. In the
25 DMS-100, this is a line card. It's not quite that

1 simple in the 5-E, but it's still a physical jumper
2 connection to the switch to tie down the copper wires.
3 All right. That's what we consider to be our port.

4 Then we have to consider our local switching. You
5 have local switching associated with the cost to get
6 the call from the line side of the switch through the
7 switch to wherever it's going. I'm looking at a local
8 call. So I'm going to leave the back side of that
9 switch. Where it says trunk side, the call leaves
10 that switch, it actually leaves it on a DS-1, it goes
11 to facilities that terminate that electrical DS-1 that
12 converts it to, in our case, optical. We send it out
13 on an optical network a certain percent of the time,
14 not on every call, so we only put it in there a
15 percent of time. It's going to go through a local
16 tandem, not an access, a local tandem, so at the local
17 tandem it would come in, it would have to be converted
18 at those facilities' terminations from an optical back
19 to an electrical, enters the tandem switch, the DS-1,
20 out the tandem switch again, once it's switched,
21 again, you do the same conversion, electrical to
22 optical. It rides fiber to the final termination,
23 same thing repeated again, and it terminates in the
24 end office.

25 So what we do is calculate the cost of that at

1 network, and then based on the calling characteristics,
2 the holding time, the percent of times it's going to
3 pass through a tandem, the number of times that you
4 have -- that that particular call's going to hit in the
5 busy hour, that information is included, and then
6 that's what we calculate in terms of our minute of use.

7 All right. Isn't that the next one? All right.

8 That is the physical makeup of what we've looked
9 at, and I think I've pretty well covered how we get the
10 investment. Now I'm going to talk just a little bit
11 about the TELRIC calculator.

12 The TELRIC calculator was introduced by BellSouth
13 in their -- in Florida in the unbundled network element
14 arbitration that we just recently completed here, so it
15 will be familiar to you as to how it actually works, so
16 I'm just going to go briefly through what we've done
17 here.

18 The TELRIC calculator takes those investments and,
19 in simplistic terms, converts them to a monthly cost,
20 and it looks at the 1998 through 2000 level cost on the
21 factors that I've just talked about. So what I have
22 going into that model is investment that is based upon
23 material prices, current material prices that BellSouth
24 is paying vendors. They come directly from our vendor
25 contracts. The BCPM includes placing costs associated

1 with buried cable, et cetera, again, from our vendor
2 contracts in the state of Florida. The actual placing
3 contracts for Florida are unique to Florida. Most of
4 the material prices are going to be regional-wide,
5 because BellSouth buys large scale regional-wide to get
6 a better pricing, but they would be appropriate for
7 Florida. They would just be generated from a regional
8 material price list.

9 Those material prices, how much of each one of the
10 items, the models I have just talked about, pull those
11 material prices together, look at the cost of
12 installing the material and then converts it to a per-
13 unit basis, and then that per-unit investment is fed
14 into the TELRIC calculator.

15 The TELRIC calculator is a model, is a computer
16 model, it's actually an Excel spreadsheet, so you can
17 follow all the calculations through exactly what it
18 does. So I'm down here in this bottom left-hand
19 corner. I'm looking at the BCPM, the switched network
20 calculator and SCIS. It has developed costs for me. I
21 will add that, I didn't mention it, but we did also
22 include signaling system 7 for our signaling overlay.
23 It doesn't add a lot of cost, but it is one of the
24 components. That investment is fed into the TELRIC
25 calculator, and let's look at the top line, what it's

1 going to do.

2 The material prices in this particular case are
3 your 1997 material prices. We're going to adjust those
4 for three years of inflation. They are adjusted, as I
5 said earlier, using TPIS, and we average the TPIS to
6 get a mid-year time frame. We take the '98, '99 and
7 2000 TPI, add it together and divide it by three. We
8 feel that will give us a good representation of mid-
9 year, which would really be 1999. We apply that to the
10 material price. As I've said earlier, copper goes up,
11 fiber goes down.

12 Then we have such things as loading, and this gets
13 to the question of the pole and conduit, land and
14 buildings. This is where I pick that up. That
15 investment for pole and conduit is applied on a per
16 dollar of investment. For instance, aerial cable,
17 buried. The land and buildings that is calculated is
18 only for central office equipment. So it's only
19 applied to the 377-C, which is your digital switching
20 account, and your 357-C, which is your circuit account,
21 because they're both located in the switch. Okay.

22 Then now I have investment dollars. I want to
23 convert it to a monthly cost. So I apply annual cost
24 factors. The annual cost factors are calculated in
25 the capital cost calculator shown down there, and it's

1 based upon a forward-looking cost of capital and
2 forward-looking economic depreciation lives. The
3 depreciation lives were developed by our capital
4 recovery organization, and in the USF hearing, Mr.
5 Cunningham has filed testimony on those depreciation
6 lives. They are economic lives, not prescribed.

7 And the cost of money is 11.25. Again, Dr.
8 Billingsly has filed testimony in USF to support that
9 as a risk adjusted cost of capital for BellSouth.

10 And then you have the income tax rate, and the
11 income tax rate is what it is. There's no real
12 question about that.

13 All right, then we move forward. We've got to
14 pick up operating expenses. This is predominantly
15 maintenance. This is the maintenance associated with
16 the switch, the cable, all the pieces of equipment
17 that is calculated on a per dollar of investment, so
18 that's how we apply it, and it is forward-looking.
19 That particular factor is based upon three years of
20 budgeted data. So, in other words, BellSouth has
21 budgeted so many hundreds of thousands of dollars for
22 aerial cable, it's budgeted so many thousands of
23 dollars for maintenance. It's that relationship, the
24 next three years we look at. And we feel that gives
25 it a more forward-looking view. It also takes into

1 consideration any productivity changes during that
2 time frame as well as the significant head count
3 reductions we've had in the last few years.

4 MR. DOWDS: Ms. Caldwell, just by way of
5 clarification, okay, you're using BCPM to get your
6 feeder and distribution plant, excluding conduit and
7 supporting structures, and you've also zeroed out all
8 the land and building calculations and all the
9 operating expense calculations with BCPM?

10 MS. CALDWELL: Yes, we do not use the expense
11 calculator at all.

12 MR. DOWDS: All the switching?

13 MS. CALDWELL: All the switching.

14 MR. DOWDS: Everything's zeroed out except for the
15 feeder and distribution plant module?

16 MS. CALDWELL: Right. Okay. The ad valorem taxes
17 and other taxes, franchise taxes, things of that type,
18 which are pretty straightforward on the dollar of
19 investment.

20 Then we have -- this is where we're going to pick
21 up our general support. We have a calculation to pick
22 up here the -- such things as some additional land and
23 buildings. We also pick up some accounts here for the
24 vans. I believe this morning Mr. Dickerson had a slide
25 that showed the account that had the motor vehicles

1 that the technicians ride in. We picked those up
2 here. This is also adjusted for three years' worth of
3 budgeted data going forward, so we tried to look at
4 what we anticipate in the future. That is only those
5 dollars associated with the core investment, the core
6 network. That's like the switching, the outside plant,
7 the digital loop carrier. It is not associated with
8 any of the other investments, such as computers and
9 things of that type. It is the basic physical network
10 that we have constructed.

11 Then we apply a gross receipts tax, which is
12 simply a tax on revenues, and then we apply something
13 called a customer operations factor. This morning we
14 were talking about in terms of such things as billing
15 and collections. Well, if I have a customer, I'm
16 going to have associated with it some service order
17 activity, I'm going to have the costs associated with
18 their billing and collections. We expressed this on a
19 per dollar of cost. We look at the accounts and
20 develop a relationship. So every service gets a
21 certain portion of billing and collections.

22 Another account that you think about, and I think
23 is a very important one, is general purpose computers,
24 computers associated with the fact that you have
25 representatives taking orders and processing those

1 orders. Now, the time for that service representative
2 is in the nonrecurring costs, so I'm not double-
3 dipping, I'm only looking at those general purpose
4 computers associated with that activity. So that's
5 what we're picking up there. And there is, you know, a
6 simple spreadsheet that goes through those
7 calculations.

8 With that now I have the costs associated with my
9 -- whatever facility I'm studying. In this case it's
10 the 1-FR, so I would have costs associated with the
11 loop, port and usage.

12 The bottom just simply talks about the labor
13 associated with service order, which would be the one
14 representative here. We look at the work time
15 associated with taking the service request, processing
16 it, and apply that by that time, multiply it times the
17 labor rate of the individual performing the activity.
18 And that becomes our nonrecurring cost. We do have
19 disconnect cost in there because at some point in time
20 they are going to disconnect. There's a small amount
21 of labor associated with that, and what we've done
22 here is assume it happens in the future. So we
23 discount it back to present dollars, a process that
24 we've used in the past. Okay.

25 And that brings us down to where I want to get,

1 really, with the fact that I have now calculated all of
2 my costs, and I think I've gone quickly through it, but
3 I hope I've laid enough groundwork and outline for you
4 to follow. I have my costs associated with the top two
5 boxes. We still need to remember that in the end all
6 of the shared and common must be recovered, so at some
7 point you've got to have revenues to cover that. So
8 let's move to the next one.

9 These are from the results of the study. We
10 studied the 1-FR and 1-FB associated with our rate
11 groups. Rate group 1 had a cost of \$47.79, and if you
12 follow all the way down until you see the 7.30 in the
13 bottom corner, that represents the average rate from
14 our contribution analysis that you will obtain on a per
15 1-FR basis for -- in rate group 1. So definitely in
16 rate group 1 we are significantly under cost. If you
17 look at rate group 12, you're a little bit closer,
18 because now you've moved to your dense urban area.
19 Cost is a little lower for all the reasons we talked
20 about earlier, and it's \$21.40; however, you still have
21 a rate of 10.65, so you are under water again in rate
22 group 12.

23 If you look at business, the picture changes a
24 little. You're much closer in rate group 1. It's
25 27.12, and it's 19.80 is your rate. So in this

1 particular one you're not covering costs, but again,
2 that's because you're in your very, very rural area.
3 If you move over to rate group 12, though, you see the
4 scenario changes. Now your cost is at 20.39, and your
5 rate is at 29.10. So for business in rate group 12,
6 you are definitely covering your costs.

7 And in our contribution analysis I think there
8 were five rate groups, 6 through 12, that had a
9 positive contribution for your business based on the
10 costs that we've calculated and the rates that we're
11 charging today.

12 MR. OCHSHORN: Ms. Caldwell, to save some time,
13 did BellSouth make the same allocation decisions that
14 Mr. Steele described in his testimony, the same cost
15 allocation decisions as far as what costs go to basic
16 service versus vertical services?

17 MS. CALDWELL: In terms of that we looked -- let
18 me answer it this way and see if this answers your
19 question.

20 We looked at the costs that would be incurred in
21 providing basic service, and that was for loop, the
22 port and the local usage. The vertical features is the
23 costs associated with just vertical features, and that
24 would be your switch costs.

25 MR. OCHSHORN: And it would be a percentage of the

1 switch costs based upon minutes of use?

2 MS. CALDWELL: I don't really do it in terms of
3 minutes of use. The features is you look at the
4 milliseconds that's actually used in the switch, and
5 you determine how many milliseconds that particular
6 feature uses. So I don't want to really -- I'm sorry.
7 I just don't want to really equate that with minutes of
8 use, because people think that's how long you use it,
9 and that's not really the same thing.

10 MR. OCHSHORN: Okay. And on the revenue side, the
11 only charge that you -- that your company allocated
12 towards the basic services was the tariff charge for a
13 single line? I mean, it doesn't seem to include even
14 the single -- the 3.50 charge or the second line
15 charges --

16 MS. CALDWELL: Correct.

17 MR. OCHSHORN: -- or --

18 MS. CALDWELL: Correct. It is the tariff rates
19 for 1-FR.

20 MR. OCHSHORN: -- extended service charges or
21 anything, okay, other than that?

22 MS. CALDWELL: Yes.

23 MR. OCHSHORN: Okay. Thank you.

24 MS. CALDWELL: Okay. And this gives a summary of
25 the contribution. I'm not going to go through each one

1 of them because this has already been provided. I
2 think what's significant, though, is if you look over
3 in the far right column, residence is definitely not
4 covering its costs, and if you look at the
5 nonrecurring, the nonrecurring is not covering its
6 costs either. One of the things you have to remember
7 about nonrecurring, when you're looking at the
8 analysis, nonrecurring, we are not able to divide
9 nonrecurring between 1-FR and vertical features, it's
10 just nonrecurring. In other words, if I call in for a
11 change on my line and add a feature, I'm charged a
12 nonrecurring change charge, and it doesn't show up as
13 being associated with a feature, it's just a change
14 charge. And if you look in my detailed analysis that
15 we filed, you will show for change charges that is a
16 positive contribution, but this is just nonrecurring as
17 a total. And if you move on to the next one, which is
18 the business --

19 MR. DUNKEL: Can I stay here for a second, please?

20 MS. CALDWELL: Yes.

21 MR. DUNKEL: Back to residential.

22 MS. CALDWELL: Uh-huh.

23 MR. DUNKEL: First of all, you also did toll and
24 access contribution analysis, correct?

25 MS. CALDWELL: IntraLATA toll and switched

1 intrastate.

2 MR. DUNKEL: And the cost you showed for toll
3 included no part of the loop or port, correct?

4 MS. CALDWELL: Correct. It included only costs
5 associated with the usage of the network associated
6 with toll.

7 MR. DUNKEL: And for switched access, the cost you
8 showed for switched access included neither the port
9 or loop cost, no portion of those?

10 MS. CALDWELL: That is correct.

11 MR. DUNKEL: Okay. And the residential costs
12 you're showing here for residential basic does include
13 the full loop and port costs, correct?

14 MS. CALDWELL: Yes, as it should.

15 MR. DUNKEL: Okay. On the 25.25 figure that's the
16 statewide average for R-1, could you give us a
17 breakdown of what amount of that is loop and what is
18 port and what is local usage?

19 MS. CALDWELL: I'm afraid I can't give you a
20 percentage because we consider every cost below the
21 combined 25.25 to be proprietary. It is available,
22 but it is a large portion. I can say that.

23 MR. DUNKEL: Okay. There was a -- previously for
24 Sprint I think they gave a cost of 3.21 as being the
25 cost excluding port and loop. Is your cost of R-1

1 excluding port and loop in that same ballpark?

2 MS. CALDWELL: It's a similar relationship.

3 MR. DUNKEL: Thank you.

4 MR. OCHSHORN: I had one last question --

5 MS. CALDWELL: Sure.

6 MR. OCHSHORN: -- relating to the graphs you have
7 up now, and this may very well be a question for Mr.
8 Taylor to think about for tomorrow morning, it might be
9 in his subject area. But just one aspect of your
10 contribution analysis that strikes me is that your
11 company's basing costs based on this model of forward-
12 looking costs, and just one part of that, for example,
13 you mentioned was all digital switches. Currently,
14 according to the statistics that BellSouth reports to
15 the FCC, 95 percent of your switches are analog
16 switches, and I guess you could make similar
17 comparisons with other parts of your costs. My
18 question is, as a consumer, would be why should costs
19 of the system that I don't even use be attributed to my
20 basic service? If my basic service doesn't include
21 digital switching and whatever else is in there, why
22 should that be attributed to my service?

23 MS. CALDWELL: Well, in terms of what you have to
24 think about is, when you use an analog switch today,
25 what does that really mean, and we're talking about the

1 forward-looking. So as you put usage onto that switch,
2 that switch is going to exhaust. So what am I going to
3 replace it with? I'm going to replace it with a
4 digital switch. So the actual value of that analog
5 switch in a cost study is the technology you will
6 replace it with, so that's why you use digital
7 switches, and it is a more efficient, cost-effective
8 forward-looking network.

9 MR. OCHSHORN: Okay. The fellow -- I realize that
10 BellSouth has estimates of the useful lives of these
11 different switches for depreciation and I'm guessing
12 that, like GTE, you used those useful lives in this
13 cost analysis?

14 MS. CALDWELL: Yes, I used the economic life that
15 was used in my annual cost factor, so that switch has
16 -- the cost is spread over -- in the switch I think
17 it's ten years -- you'll have to give me -- it's either
18 ten or twelve. It's spread over the full life of the
19 switch, so it's not all in the first year.

20 MR. OCHSHORN: All right. A question that I would
21 have, and it may be more for staff than for you, is,
22 in the real world, how long do analog switches last,
23 and I have a similar question for the other
24 technology. So --

25 MS. CALDWELL: I'm not going to have the detailed

1 data for that.

2 MR. OCHSHORN: I understand. Thank you.

3 MR. DUNKEL: Okay. I have one more question. If
4 -- in the case where you've got a residential customer
5 receives a bill that has a billing for local service,
6 a vertical service, some toll calls and some IXC
7 billing, and there is only one stamp on there, 30
8 cents, whatever it is you pay for the one stamp, is it
9 correct you would put the full cost of that first
10 stamp in the cost you're showing for basic exchange?

11 MS. CALDWELL: No, because what I have done here
12 is I have calculated it on an per dollar of cost, so
13 every service gets a share of billing and collections.

14 MR. DUNKEL: What do you mean on a per dollar --
15 based on revenues?

16 MS. CALDWELL: No, based on costs. I develop a
17 relationship between the expenses we have associated
18 with billing and collections and then the total cost of
19 the corporation, and I exclude any particular billing
20 study that I have. Say for instance I have a cost for
21 billing to interexchange carriers, so that is excluded
22 from my expenses because I don't want to double dip, so
23 I have expenses for billing and collections, and then
24 that is spread over a per dollar of cost. So every
25 service gets a share of billing and collections.

1 MR. DUNKEL: You lost me when you say per dollar
2 of cost. Take the example where we just gave, where
3 you have a bill sent to residential customer. There
4 are several services billed for, there's only one
5 stamp. How did you split that 30 cents among the
6 services?

7 MS. CALDWELL: All right. I did not do a detailed
8 study of the bill that included the stamp, et cetera,
9 all right? What I did was look at the books of the
10 corporation with three years' projected dollars going
11 forward, so in the billing and collection account -- I
12 can't remember what it is right now, but that account,
13 there is a dollar amount that is going to be incurred
14 going forward, and then if you take all of the
15 investment -- or, excuse me, all of the costs of the
16 corporation associated with the network, anything that
17 would have a service associated with it. No, common
18 and all that stuff is excluded. Executive is out of
19 there, accounting, all of that.

20 MR. DUNKEL: So you did it in proportion to the
21 incremental costs of each service, is that it?

22 MS. CALDWELL: Yes.

23 MR. DUNKEL: Thank you.

24 MS. CALDWELL: Okay.

25 MS. SIMMONS: Ms. Caldwell, over here in staff,

1 Sally Simmons.

2 I'm still a little confused about the
3 nonrecurring, the information down at the bottom. You
4 spoke as though the cost was fairly all-encompassing in
5 terms of -- I kind of got the impression it was both
6 like primary and secondary service order changes. I
7 guess I'm just trying to be clear on what's in the cost
8 and what's in the revenue that you're showing down at
9 the bottom.

10 MS. CALDWELL: If you give me one second, let me
11 -- what I'm referring to is simply my comments that I
12 filed, and it's in the contribution analysis. You have
13 -- I just want to be sure I cover them all. You have a
14 line connection, which is first and additional, you
15 have a line change, which is first and additional, and
16 then you have a service order charge, okay, and then
17 you have a premises work, first and additional.

18 Now, what that is is the line connection is the
19 physical work to connect the facility or to do what
20 actual physical work has to be done, like traveling to
21 the prem, things of that type. A change is normally
22 just -- adding a feature is a good example of a change,
23 or a residence customer calling in and maybe changing a
24 number for some reason, where they issue a change
25 order.

1 Service order is the cost associated with a
2 service representative actually taking that order, and
3 then the premises work, that's where you ask us to do
4 something specifically and we bill you on time and
5 materials in many cases, so that's not as big a deal.

6 What I was saying is, based on those activities,
7 this is filed actually in the A-4 tariff, and a lot of
8 services refer to that. The 1-FR is ordered out of the
9 A-4, the 1-FB, your vertical features, some of your
10 ESSX features, things of that type is all ordered out
11 of there, so when I calculated my revenues, I couldn't
12 divide them by service, so what I had to do was just
13 lump all the revenues together. The cost is the same
14 regardless of the service.

15 MS. SIMMONS: All right. So are you saying that
16 the cost is all-encompassing, covered all those items
17 you just mentioned, and the revenue covers all of those
18 items as well?

19 MS. CALDWELL: Yes.

20 MS. SIMMONS: Okay. Regardless of service, all we
21 know is it's residential.

22 MS. CALDWELL: Yes, it is -- I had to stop and
23 think. It's residence and business split. So it is --
24 there's no toll, no access, anything of that type.
25 It's residential, business, and then those others are

1 handled somewhere else.

2 MS. SIMMONS: Okay. Thank you.

3 MS. CALDWELL: Okay.

4 MR. OCHSHORN: And Ms. Caldwell, one very last
5 question, and I empathize with you having to keep
6 turning around.

7 MS. CALDWELL: Oh, that's fine.

8 MR. OCHSHORN: But did BellSouth do a grid
9 analysis to determine the cost of residential versus
10 business basic rate service similar to GTE's and
11 Sprint's?

12 MS. CALDWELL: GTE's is similar. We used the
13 exact same process that Mr. Dickerson explained,
14 because we both used BCPM 3.1.

15 MR. OCHSHORN: Right. I understand your inputs
16 might be different --

17 MS. CALDWELL: Yes.

18 MR. OCHSHORN: -- but -- okay, thank you.

19 MS. CALDWELL: Any other questions?

20 All right. Just to quickly summarize, then, I
21 think we're probably down to -- I think that was my
22 last slide. All I really wanted to summarize with is
23 that the methodology we've used here is what we've used
24 in tariff filings for the last few years. I don't
25 think we've introduced anything new except BCPM 3.1,

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C E R T I F I C A T E

STATE OF FLORIDA)
COUNTY OF LEON)

I, RAY D. CONVERY, Court Reporter at Tallahassee, Florida, do hereby certify as follows:

THAT I correctly reported in shorthand the foregoing proceedings at the time and place stated in the caption hereof;

THAT I later reduced the shorthand notes to typewriting, or under my supervision, and that the foregoing pages 136 through 261 represent a true, correct, and complete transcript of said proceedings;

And I further certify that I am not of kin or counsel to the parties in the case; am not in the regular employ of counsel for any of said parties; nor am I in anywise interested in the result of said case.

Dated this 23rd day of October, 1998.


RAY D. CONVERY
Court Reporter