

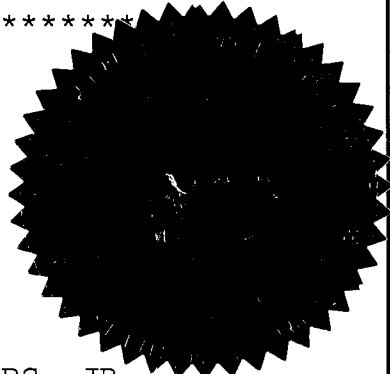
BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION

In the Matter of : DOCKET NO. 990649-TP
:
INVESTIGATION INTO PRICING :
OF UNBUNDLED NETWORK :
ELEMENTS. :

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VOLUME 18

Pages 2842 through 3027



PROCEEDINGS: HEARING

BEFORE: CHAIRMAN J. TERRY DEASON
COMMISSIONER E. LEON JACOBS, JR.
COMMISSIONER LILA A. JABER

DATE: Friday, October 20, 2000

TIME: Commenced at 10:00 a.m.
Concluded at 10:40 a.m.

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

REPORTED BY: JANE FAUROT, RPR
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APPEARANCES:

(As heretofore noted.)

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NAME:

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ERIC McPEAT

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Prefiled Rebuttal Testimony Inserted

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Deposition Testimony Inserted

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7	AT&T Practice 902-115-101,		
8	Issue 3, March '65	2858	2858
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CHAIRMAN DEASON: Call the hearing to order.

UNIDENTIFIED SPEAKER: Hi. I would like to patch into the hearing.

CHAIRMAN DEASON: Okay. Well, we are just getting started. If you will wait just a moment we will give you an opportunity to identify yourself.

UNIDENTIFIED SPEAKER: Thank you.

CHAIRMAN DEASON: Staff, could we have the notice read, please.

MS. CALDWELL: Yes, sir, Commissioner. Notice was given in the October 13th, 2000, Florida Administrative Weekly of the continuation of hearing in Docket Number 990649, investigation into pricing of unbundled network elements to be held at this time and place for the purpose as set forth in the notice.

CHAIRMAN DEASON: Thank you. What I will do is I will take appearances of folks that are here physically in the room. And when we exhaust those, then we will take those who are participating by telephone.

MR. GROSS: Good morning. I'm Michael Gross representing the FCTA.

MR. FONS: Good morning, Commissioners. I'm John Fons with the Ausley, McMullen law firm representing Sprint.

1 MR. MELSON: Richard Melson of Hopping, Green,
2 Sams, and Smith representing Rhythms Links and WorldCom.

3 MR. SELF: Floyd Self of the Messer, Caparello,
4 and Self law firm representing AT&T.

5 MS. McNULTY: Donna McNulty representing
6 WorldCom.

7 MR. McGLOTHLIN: Joe McGlothlin for the FCCA and
8 also for Z-Tel Communications.

9 MS. KAUFMAN: Vicki Gordon Kaufman of the
10 McWhirter, Reeves law firm on behalf of Covad
11 Communications and BlueStar Networks.

12 MR. DUNBAR: Mr. Chairman, Peter Dunbar of the
13 Pennington firm, Time Warner Telecom.

14 MS. CALDWELL: Diana Caldwell, Florida Public
15 Service Commission staff, and Wayne Knight also for the
16 staff.

17 CHAIRMAN DEASON: We will now take appearances
18 for individuals who are participating via telephone.

19 MR. SAPPERSTEIN: Good morning, Chairman. Scott
20 Sapperstein on behalf of Intermedia Communications.

21 CHAIRMAN DEASON: Okay, thank you.

22 MR. LARO: Angel Laro (phonetic) on behalf of
23 the Bosico Group.

24 CHAIRMAN DEASON: I'm sorry, could you repeat
25 that.

1 MR. LARO: Angel Laro on behalf of the Bosico
2 Group.

3 CHAIRMAN DEASON: Okay, thank you.

4 MR. LARO: Thank you.

5 CHAIRMAN DEASON: I'm a little -- I didn't
6 understand who you are representing. Have you
7 participated in this hearing before?

8 MR. LARO: No, I just received notice. I just
9 wanted to listen in.

10 CHAIRMAN DEASON: I'm sorry?

11 MR. LARO: I just received notice via fax, and I
12 just called in to listen in on the hearing.

13 CHAIRMAN DEASON: Oh, you are just listening?

14 MR. LARO: Yes, sir.

15 CHAIRMAN DEASON: Okay, very well. Glad to have
16 you.

17 MR. LARO: I will not be participating.

18 CHAIRMAN DEASON: Okay. You are not actually
19 making an appearance as a counsel of record.

20 MR. LARO: No, sir.

21 CHAIRMAN DEASON: Very well. Other
22 participants?

23 MR. EDENFIELD: We have Kip Edenfield
24 representing BellSouth.

25 CHAIRMAN DEASON: Okay.

1 MR. SLOAN: It's Mike Sloan representing
2 Broadslate Networks, Incorporated, Cleartel
3 Communications, Incorporated, and Florida Digital Network,
4 Incorporated.

5 CHAIRMAN DEASON: Did someone just join us or
6 did someone just leave? Anyone else? Apparently not.
7 Staff, are you aware of any other participants by
8 telephone that we are waiting for a connection?

9 MS. CALDWELL: No, sir, I'm not.

10 CHAIRMAN DEASON: Okay. Very well. Preliminary
11 matters.

12 MS. CALDWELL: Yes, sir. There are several
13 outstanding motions or issues that need action by the
14 Commission. On October 19th, 2000, Verizon filed a motion
15 to withdraw its cost studies, testimony, and exhibits at
16 the request of staff. Staff believes that by granting the
17 motion the record would be correct. And we would
18 recommend the motion be granted.

19 CHAIRMAN DEASON: Any objections? Hearing no
20 objection, show then that that motion is granted. What
21 about the situation for Sprint?

22 MS. CALDWELL: Sprint, we will take care of that
23 just a little bit later, but I think Mr. Fons is prepared
24 to read the corrections into the record.

25 CHAIRMAN DEASON: Very well. Mr. Fons, when the

1 time is right just let me know. Other preliminary
2 matters?

3 MS. CALDWELL: Yes, sir. Pursuant to the
4 revised order establishing procedure, briefs were due on
5 October 16th. With that time having passed staff believes
6 that the briefs should be due on November 13th, 2000.

7 CHAIRMAN DEASON: You mean they didn't file
8 their briefs when we told them to?

9 MS. CALDWELL: They did not.

10 CHAIRMAN DEASON: I tell you. Okay. November
11 the 13th is the recommended briefing schedule. Any
12 objections? Hearing no objections, very well, November
13 13th then would be the due date for briefs. Other
14 matters?

15 MS. CALDWELL: Yes, sir. On October 9th the
16 coalition had filed an emergency motion requesting various
17 rulings related to the continuation of the hearing. Since
18 that time the concerns have been worked out. And by
19 letter dated October 16th, the coalition asked that its
20 motion be withdrawn. And staff recommends allowing the
21 motion to be withdrawn.

22 CHAIRMAN DEASON: Very well. Show then that
23 that motion is granted and withdrawal will be allowed.
24 Other preliminary matters?

25 MS. CALDWELL: The last one for staff would be

1 we have requested and e-mailed the parties to add the
2 press release of the FCC's forthcoming order on
3 multi-tenant environments to be added to the official
4 recognition list, and staff believes that none of the
5 parties have had an objection. So we ask that that also
6 be added to the official recognition list.

7 CHAIRMAN DEASON: I had inquired of staff
8 earlier about the advisability of taking official
9 recognition of a press release. Staff's concern was that
10 the timing was such that this may be the best alternative.
11 So I am going to ask are there any objections to the
12 Commission taking notice of a press release?

13 MR. MELSON: No, sir. But we would not have
14 objection to taking notice of the order when it is issued.

15 COMMISSIONER JACOBS: Yes, I think that would be
16 better.

17 CHAIRMAN DEASON: Okay.

18 MS. CALDWELL: That would be preferable to
19 staff, as well.

20 CHAIRMAN DEASON: So do you still want the press
21 release and just follow-up with the order, or how do you
22 want to do that? When is the order anticipated?

23 MS. CALDWELL: I mean, it is supposed to be
24 coming within the next several weeks. However, sometimes
25 it doesn't come out. So --

1 CHAIRMAN DEASON: Well, I'm not so sure that if
2 the order does not come out how you actually can rely on a
3 press release. I'm looking for guidance. I mean, if
4 there are no objections and everyone is comfortable with
5 it, I mean, I will allow it. But it just seems like it is
6 a little unprecedented.

7 COMMISSIONER JABER: May I ask staff a question,
8 Mr. Chairman?

9 CHAIRMAN DEASON: Surely.

10 COMMISSIONER JABER: Does the FCC make a
11 decision, an open decision that was noticed and -- is
12 there a decision that we can reference as opposed to a
13 written order?

14 MS. CALDWELL: All that I am aware of is this
15 press release that is indicating that they anticipate an
16 order coming out. And that is all the information that we
17 have. I'm not sure that they have actually voted on
18 anything at this time.

19 COMMISSIONER JABER: Because the concern I would
20 have is --

21 MS. CALDWELL: Excuse me. I'm sorry, they have
22 voted on something at this time, and I guess at this point
23 it is just not formalized.

24 COMMISSIONER JABER: I think referring to a vote
25 is more legal than the press release when they may not --

1 they may not incorporate in their order what is in the
2 press release. So referencing a press release isn't
3 appropriate, I don't think.

4 CHAIRMAN DEASON: I was certainly uncomfortable
5 with it.

6 Mr. Fons.

7 MR. FONS: Could I offer a suggestion that we
8 identify it as an exhibit as a place holder, give it an
9 exhibit number. And if the order doesn't come out by the
10 time something has to be done then that exhibit just
11 stands there without anything associated with it. If that
12 creates a complication, then maybe some other alternative
13 would be better.

14 CHAIRMAN DEASON: Mr. Melson, any objection to
15 that? I'm looking for what the parties are comfortable
16 with.

17 MR. MELSON: Commissioner, I think we are
18 comfortable with having official recognition taken of it
19 when it is issued. At that point it clearly will be
20 entitled to official recognition. The only difficulty,
21 obviously, is if it is issued after the briefs are due.
22 And at that point I guess if there was something so
23 important --

24 CHAIRMAN DEASON: Well, is anybody going to be
25 including it -- if the order is not issued, are you going

1 to be including in your brief things from a press release?

2 MR. MELSON: I wouldn't anticipate that, but I
3 haven't talked with the people who are actually going to
4 write the brief.

5 CHAIRMAN DEASON: Does staff plan on utilizing
6 the press release for its analysis in this case?

7 MS. CALDWELL: I think they may reference the
8 press release.

9 CHAIRMAN DEASON: What I'm going to do is I am
10 going to -- we will take official recognition of the order
11 when it comes out.

12 MS. CALDWELL: That will be fine.

13 CHAIRMAN DEASON: We are not going to officially
14 recognize a press release.

15 MS. CALDWELL: And let's identify it as the
16 order coming out in Dockets Number -- it is action taken
17 by the Commission on October 12th, 2000, by First Report
18 and Order and Further Notice of Proposed Rulemaking in WT
19 Docket Number 99-217, Fifth Report and Order and
20 Memorandum Opinion and Order in CC Docket Number 96-98,
21 and Fourth Report and Order and Memorandum Opinion and
22 Order in CC Docket Number 88-57(FCC00-366).

23 CHAIRMAN DEASON: Okay. Staff, that concludes
24 your preliminary matters?

25 MS. CALDWELL: Yes, it does. I think at this

1 time we can either take up Mr. Melson's -- he has provided
2 staff with a list of items it requested to be added to the
3 official recognition list, and has provided copies of
4 those items, so we could probably at this time put those
5 in, as well.

6 CHAIRMAN DEASON: Mr. Melson.

7 MR. MELSON: Yes. We distributed to all the
8 parties this morning, and I think by E-mail a day or two
9 ago, a list of additional orders we would like to be
10 officially recognized on behalf of Rhythms, Covad, and
11 Bluestar. A couple of the orders are voluminous. I have
12 provided copies to staff and BellSouth and have copies
13 here for any of the other parties who care to have them.

14 CHAIRMAN DEASON: This is one FCC order, and
15 then there are four other orders on the list from other
16 states, correct?

17 MR. MELSON: Yes, sir.

18 CHAIRMAN DEASON: Okay. Any objection? Hearing
19 no objection, show then that this will be added. Do you
20 wish to have this identified as a separate exhibit or just
21 recognizing this will be added to the list, is that
22 sufficient?

23 MR. MELSON: That is sufficient.

24 CHAIRMAN DEASON: Very well. Before we get into
25 inserting testimony and/or depositions into the record and

1 the accompanying exhibits, do any of the parties have any
2 other preliminary matters? Hearing none, we will go into
3 testimony and depositions in lieu of cross-examination. I
4 believe when we concluded the hearing Witness Riolo was on
5 the stand, is that correct?

6 MR. EDENFIELD: That's correct.

7 CHAIRMAN DEASON: Okay. And we will need to
8 insert deposition -- is there more than one deposition or
9 just one?

10 MR. EDENFIELD: Well, Mr. Riolo is just one
11 deposition.

12 CHAIRMAN DEASON: Just one deposition, okay.

13 MR. EDENFIELD: And I'm not sure, Chairman
14 Deason, is your preference to insert it like we would
15 normally do testimony, or are we going to mark it as a
16 separate exhibit?

17 CHAIRMAN DEASON: It is my preference that we
18 would insert it into the record as though it were read.
19 It will actually become part of the record in that manner.

20 MR. EDENFIELD: Okay. Well, to the extent it is
21 BellSouth's burden to make that motion, I would move that
22 into the record as if read.

23 CHAIRMAN DEASON: Okay. Let me ask this, are
24 there any objections -- I understood that there may have
25 been some objections to certain questions during the

1 deposition. And if that is not to be part of the record,
2 an objection needs to be made now. Hearing no objection,
3 then, show that the entire deposition shall be inserted
4 into the record as though read.

5 MS. CALDWELL: Mr. Chairman --

6 CHAIRMAN DEASON: Are there exhibits to that
7 deposition?

8 MR. EDENFIELD: There are. They are numbered
9 148 through 151. Do you need me to identify each of them
10 separately for you, Chairman Deason?

11 CHAIRMAN DEASON: Yes. Let me ask what was the
12 last exhibit number that we utilized in the record?

13 MS. CALDWELL: 147.

14 CHAIRMAN DEASON: Okay. So 148 through 151.
15 Yes, if you could identify those just for identification
16 purposes.

17 MR. EDENFIELD: For identification, what will be
18 marked as 148 is the exchange area transmission revised
19 resistance design, that is RL83-04-013 AT&T recommendation
20 letter dated 4/83.

21 CHAIRMAN DEASON: Is this all Exhibit 148?

22 MR. EDENFIELD: That is all Exhibit 148.

23 CHAIRMAN DEASON: That is the longest short
24 title I have ever heard.

25 MR. EDENFIELD: I mean, I can shorten these up.

1 All these are just resistance design and engineering
2 guidelines.

3 CHAIRMAN DEASON: Okay.

4 MR. EDENFIELD: 149 -- maybe it is easier to do
5 it this way. 149 is AT&T Practice 902-115-101 labelled
6 Issue 3, March 1965.

7 CHAIRMAN DEASON: March of '65.

8 MR. EDENFIELD: Yes, sir.

9 CHAIRMAN DEASON: Okay.

10 MR. EDENFIELD: Exhibit 150 is Addendum
11 902-115-101SB, and that is Issue C, April 1984.

12 CHAIRMAN DEASON: Okay.

13 MR. EDENFIELD: And Exhibit 151 is RL96-02-26BT.

14 CHAIRMAN DEASON: Okay.

15 MR. EDENFIELD: And those are the four that were
16 identified as cross-examination exhibits by BellSouth.

17 CHAIRMAN DEASON: I'm sorry, could you repeat
18 that last?

19 MR. EDENFIELD: Yes, sir. Those were identified
20 as cross-examination exhibits by BellSouth.

21 CHAIRMAN DEASON: Okay. And those are Exhibits
22 148 through 151?

23 MR. EDENFIELD: Yes, sir.

24 CHAIRMAN DEASON: Okay. Any objection to those
25 exhibits?

1 MS. CALDWELL: Commissioner, staff doesn't have
2 an objection, but I think in the deposition we noticed
3 that Exhibit 151 was proprietary.

4 CHAIRMAN DEASON: Okay. So it has been
5 identified at least at this stage as being proprietary, so
6 it will be afforded that. There has been a request that
7 it be proprietary, correct?

8 MS. CALDWELL: That is correct.

9 CHAIRMAN DEASON: Okay. So it shall be
10 maintained proprietary and will go through the normal
11 process. Ms. Kaufman.

12 MS. KAUFMAN: Mr. Chairman, I was just going to
13 say that I have copies of Mr. Riolo's cross-examination
14 for distribution and insertion in the record, if you want
15 me to do that at this time or whenever it is appropriate.
16 And I believe that the exhibits were provided by BellSouth
17 to all the parties, but I can provide a copy to the court
18 reporter, as well.

19 CHAIRMAN DEASON: Yes. If you could do that
20 that would be appreciated. Yes, you can do it right now.

21 MR. EDENFIELD: And with that, Chairman Deason,
22 we would move Exhibits 148 through 151 into the record.

23 CHAIRMAN DEASON: Yes. Without objection those
24 exhibits are admitted.

25 (Exhibit 148 through 151 marked for

1 identification and admitted into evidence.)

2 MR. EDENFIELD: And that will conclude
3 BellSouth's cross-examination of Mr. Riolo.

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1 APPEARANCES OF COUNSEL

2 On behalf of the BellSouth Telecommunications:

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Commission (Telephonically)

1 JOSEPH P. RIOLO,
2 having been first duly sworn, was examined and
3 testified as follows:

4 MR. ROSS: Mr. Riolo, good afternoon.
5 Just for the record, this is the continuation
6 of Mr. Riolo's cross-examination in
7 connection with Florida Docket No.
8 990649-TP. This is not a deposition but the
9 cross-examination and will be conducted as
10 such.

11 Do any parties have any objection to
12 proceeding in that manner?

13 MR. FONS: Just for the record we have
14 waived the fact -- this is John Fons -- we
15 waive the fact that the attorney who started
16 the cross-examination is not concluding it.

17 MR. ROSS: Yes, thank you. This is
18 being conducted, this cross-examination is
19 being conducted in this manner as an
20 accommodation to Rhythm Links and Covad. Mr.
21 Riolo has prior commitments, I believe, on
22 the 20th and he has already withstood
23 withering cross-examination for some period
24 of time and we did not object to continuing
25 the cross-examination telephonically so we

1 can conclude this in the most expeditious
2 manner possible. But in order to accommodate
3 that request, Mr. Edenfield is in a hearing
4 in North Carolina which necessitated bringing
5 in the second string so I am going to finish
6 up the cross-examination. With that said,
7 why don't we go ahead and get started.

8 CROSS-EXAMINATION

9 BY MR. ROSS:

10 Q. Mr. Riolo, I want to talk about loop
11 conditioning a little bit. And in responding to
12 questions for Mr. Edenfield, you discussed that Bell
13 Atlantic had load coils on loops less than 18
14 kilofeet as a result of its installation of digital
15 loop carrier systems in its network. Do you recall
16 that testimony?

17 A. I don't recall that specific cite; but if
18 you could read it back to me or something, refresh
19 my memory.

20 Q. Instead of going through the transcript,
21 is it your understanding that at some point in time
22 Bell Atlantic began to deploy digital loop carrier
23 systems in its network?

24 A. Certainly they have deployed digital loop
25 carrier network.

1 Q. Prior to having digital loop carrier
2 systems in its network, is it fair to say Bell
3 Atlantic had loops that were relatively lengthy, in
4 excess of 18, 20, 30 kilofeet?

5 A. Yes, they did.

6 Q. As I understood your testimony in
7 response to Mr. Edenfield, you had indicated that
8 when Bell Atlantic began deploying digital carrier
9 or DLC systems that Bell Atlantic would cut back a
10 copper pair and reuse that copper facility to serve
11 customers from the office; is that fair?

12 A. They had done that in the past, yes.

13 Q. If in a particular instance Bell Atlantic
14 had a loop that was 30 kilofeet, can we agree that
15 chances are that loop would be loaded?

16 A. If the loop stayed out at a lengthy
17 enough distance, then it would be loaded. For
18 example, if it stayed at a distance and served
19 customers in excess of 18 kilofeet then it would be
20 loaded if it was used for voice grade service.
21 However, if they cut it back to reuse it for close
22 to the central office, let's for argument sake say
23 12,000 feet from the central office, they might not
24 necessarily maintain the loads on that. They would
25 have taken them off or they should have taken them

1 off, let me say that.

2 Q. Let's go back to loop that was originally
3 30 kilofeet from the central office. I think you
4 testified you would agree that it would not violate
5 any design practices to have load coils on that
6 particular loop.

7 A. Not for voice grade service.

8 Q. And if Bell Atlantic were to cut back
9 that copper pair when it installed a DLC system and
10 it didn't remove those load coils, the copper being
11 reused by Bell Atlantic would have load coils on
12 them, correct?

13 A. Obviously, yes, in that instance.

14 Q. I believe I understood you to testify
15 that because Bell Atlantic cut back a number of its
16 longer loops that were needed when it deployed DLC,
17 that explained why it is that Bell Atlantic had
18 loaded copper pairs that were now less than 18
19 kilofeet.

20 A. That certainly could be one of the
21 instances that would lend itself to that, that
22 particular instance.

23 Q. And do you have any reason to believe
24 that the circumstance we have just described of
25 deploying DLC and the extent to which it was used in

1 connection with cutting back longer loops, that that
2 was unique to Bell Atlantic?

3 A. It certainly wasn't unique to Bell
4 Atlantic; however, I still have to stress the fact
5 that when a copper cable is cut back and reused, if
6 the reused cable is shorter than 18 kilofeet, then
7 it no longer requires load coils for voice grade
8 design. Thus by engineering guidelines, those load
9 coils should have been taken off of the cable so
10 that the reused cable becomes nonloaded from the
11 central office to a distance less than 18 kilofeet.

12 Q. When were DLC systems first deployed in
13 any significant number in the networks?

14 A. Early 1970s.

15 Q. And this would have been at the time you
16 were employed at AT&T?

17 A. I was employed at New York Telephone and
18 AT&T in the '70s.

19 Q. Is it fair to say that during the time
20 you went back to Bell Atlantic which I believe
21 was -- or NYNEX at the time -- in 1980, the DLC
22 systems continued to be introduced with greater
23 frequency in the network?

24 A. Yes, that's true.

25 Q. And it is your testimony that when Bell

1 Atlantic would cut back loops after deploying DLC in
2 the network that it should have removed load coils
3 from those cut back loops to the extent they were
4 less than 18 kilofeet?

5 A. That's correct.

6 Q. To the extent that Bell Atlantic or NYNEX
7 did not do that it would have violated engineering
8 practices?

9 A. It would have violated the engineering
10 guidelines, yes.

11 Q. And of course if Bell Atlantic had
12 actually removed all the load coils from the
13 cut-back loops less than 18 kilofeet, they wouldn't
14 be in their network, there wouldn't be loaded loops
15 in the network today as a result of this phenomenon,
16 correct?

17 A. Provided the reason was that it was a
18 reused cable. There might have been other reasons,
19 but for that specific instance that you are
20 questioning about, yes, it would be.

21 Q. Is it your testimony that in all
22 instances when you are aware when Bell Atlantic cut
23 back long copper loops after deploying a DLC system
24 that it removed load coils from those loops?

25 A. It is my testimony that the engineering

1 guidelines would dictate that the load coils should
2 be removed. Obviously without looking at each and
3 every case, I couldn't comment on whether it was
4 physically done, but that was the practice.

5 Q. Are you aware of circumstances during
6 your tenure with Bell Atlantic where that was not
7 done?

8 A. I am personally not aware of it.

9 Q. I believe I understood your testimony in
10 response to Mr. Edenfield that reusing loaded cable
11 that had been cut back after the installation of DLC
12 system without removing load coils would be a design
13 defect and would not follow industry practice; is
14 that correct?

15 A. That's correct.

16 Q. And I believe that you testified that
17 Bell Atlantic is willing to deload copper pair on
18 behalf of ALECs at no cost because Bell Atlantic
19 recognizes that it is a design defect and does not
20 follow practice; is that correct?

21 A. That's correct.

22 Q. Can you take a look -- first of all,
23 where is it that Bell Atlantic has made that
24 statement, that allowing load coils to remain on
25 loops that had been cut back after the installation

1 of the DLC system would violate design practices?

2 A. In recent testimony that Bell Atlantic
3 in -- I believe it was in New York that they
4 submitted it from the panel and likewise probably
5 exists in other Bell Atlantic states. They would
6 not charge for deloading cables less than 18
7 kilofeet because there was never a guideline in Bell
8 Atlantic or at that time New York -- NYNEX that
9 would require loading facilities less than 18
10 kilofeet for voice grade services.

11 Q. Do you happen to have your direct and
12 rebuttal testimony dated July 31, 2000, in front of
13 you?

14 A. Yes, I do.

15 Q. If I could ask you to look at Page 75 of
16 that testimony, lines 4 through 8.

17 A. Yes.

18 Q. On this particular page and the lines we
19 are referring to, you quote a statement from panel
20 testimony of Bell Atlantic in a proceeding in New
21 York. Is that the statement that you are referring
22 to?

23 A. Yes, I am.

24 Q. Now, would you agree with me that the
25 statement that you have quoted says that load coils

1 are generally not required for such loops, that's
2 loops less than 18 kilofeet, under the current or
3 past design criteria?

4 A. Yes, that is what it says.

5 Q. Would you agree that the statement from
6 panel testimony of Bell Atlantic that you quote does
7 not refer to the fact if load coils are in fact on a
8 loop less than 18 kilofeet that it violates design
9 criteria or constitutes a design defect?

10 A. Specifically in the words, the word
11 violate isn't included in this statement, however,
12 it is couched in terms that there are instances
13 where cables are indeed loaded with load coils less
14 than 18 kilofeet for design reasons. What they are
15 addressing in the panel testimony was the fact that
16 loops less than 18 kilofeet for voice grade service
17 by engineering practice do not require load coils
18 and hence that is the terms in which this statement
19 is couched, that it violates those practices.

20 Q. What is Bell Atlantic's position, if you
21 know, about removal of bridged tap?

22 A. I couldn't state their position without
23 reading through some of the materials.

24 Q. Based on your participation in other
25 proceedings, to your knowledge does Bell Atlantic

1 voluntarily remove bridged tap without charging
2 ALECs for the expense in doing so?

3 A. It was not their position, at least
4 initially, that they would do that; whether they
5 have been ordered to do that is obviously another
6 question.

7 Q. There was considerable discussion during
8 your cross-examination by Mr. Edenfield about
9 engineering practices and the like and I believe you
10 had testified in response to Mr. Edenfield that the
11 engineering practices that you were referring to
12 with respect to load coils were generally set forth
13 in the late filed Exhibit No. 3 to your deposition
14 and I have a copy in front of me. I present a copy
15 to you.

16 A. These were in addition to the guidelines
17 that we were speaking of at that point as well, I
18 believe.

19 Q. What other guidelines were you speaking
20 to other than those referenced in your late filed
21 Exhibit 3?

22 A. I don't see revised resistance design
23 under here. Yeah. Here is revised resistance
24 design. It is here. It would appear to cover them.

25 Q. So it is fair to say that when we have

1 been talking during your cross-examination about
2 engineering practices and loaded loops that the
3 engineering practices that you were talking of are
4 set forth in the late filed Exhibit 3 to your
5 deposition?

6 A. I am hesitating because I am looking for
7 one other that just came to mind. There probably
8 would be certain area concept guidelines as well. I
9 don't recollect the specific practice numbers.

10 Q. Could you give me a little more
11 description on what guidelines you are talking
12 about?

13 A. Serving area concept talk primarily about
14 segregating and interfacing the plant as opposed to
15 hard wiring and multiplying the plant. However,
16 there were portions of practice that spoke about the
17 plant that was serving a particular serving area
18 would be designed in a certain fashion where it
19 would be either all loaded or all nonloaded. So to
20 the extent it addressed loading it would be a
21 practice that probably should be included here.

22 Q. At least with respect to those that you
23 have identified in connection with your deposition,
24 you have identified Digital Loop Carrier Systems,
25 AT&T Outside Plant Engineering Handbook dated August

1 1994; is that correct?

2 A. Yes.

3 Q. I believe at least a portion of that was
4 attached and provided during discovery as at least
5 indicated in your late filed Exhibit 3; is that
6 correct?

7 A. Yes, it is.

8 Q. You also identified Carrier Serving Areas
9 Metallic Loop Conditioning, Bell Core Notes on the
10 Network Distribution dated December 1997 which also
11 apparently was provided in connection with
12 discovery; is that correct?

13 A. That's correct.

14 Q. You also identified an Exchange Area
15 Transmission Resized Resistance Design and RL
16 8304013 dated August of 1983; is that correct?

17 A. Actually, April of '83 but yes.

18 Q. I am sorry, April of '83. Let me see if
19 I can ask you to identify this document and see
20 whether that is the RL 8304013 that you are
21 referring to.

22 A. Yes, it is.

23 MR. ROSS: Let's go off the record.

24 (Discussion ensued off the record.)

25 Q. (By Mr. Riolo) Mr. Riolo, you also

1 identify on your late filed Exhibit No. 3 as item
2 No. 4 Application of Resistance Design to Subscriber
3 Loop Plant, AT&T Practice 902-115-101, dated March
4 of 1965; is that correct?

5 A. That's correct.

6 Q. I have a copy of that which I would ask
7 you to identify if I could.

8 A. That is the practice.

9 MR. ROSS: If we could go ahead and
10 mark this as Exhibit 148.

11 MR. FONS: This is John Fons, I thought
12 we had done item No. 3 of Exhibit 3 as 138.

13 (A discussion ensued off the record.)

14 (Exhibit 148 was marked for
15 identification.)

16 MR. ROSS: Item No. 4 from Mr. Riolo's
17 late filed Exhibit No. 3 is a March 1965 AT&T
18 practice which we have marked as Exhibit
19 149.

20 (Exhibit 149 was marked for
21 identification.)

22 Q. (By Mr. Ross) Mr. Riolo, item No. 5 on
23 your late filed Exhibit No. 3 is an April 1984
24 Application of Resistance Design to Subscriber Loop
25 Plant; is that correct?

1 A. Yes, it is.

2 Q. Let me see if you can identify this
3 document for me.

4 MS. BOONE: Bennett, I am not going to
5 instruct the witness not to answer, but I
6 would like to raise an objection. In my view
7 this is the worst kind of the second bite of
8 the apple. Mr. Edenfield questioned Mr.
9 Riolo at length during the hearing about
10 design guidelines, et cetera, and I think
11 that you have obviously used the opportunity
12 to go back through the testimony and clean up
13 for Mr. Edenfield. I don't think that is
14 appropriate. But that being said, I will
15 allow the witness to answer.

16 THE WITNESS: This is the practice that
17 I referred to.

18 MR. ROSS: We will mark that as Exhibit
19 150.

20 (Exhibit 150 was marked for
21 identification.)

22 Q. (By Mr. Ross) Mr. Riolo, item No. 6 on
23 your late filed Exhibit No. 3 is a Gauging of
24 Distribution Cables which is a BellSouth Practice
25 dated November 1998; is that correct?

1 A. Yes, it is.

2 (Exhibit 151 was marked for
3 identification.)

4 Q. (By Mr. Ross) Now, I am sorry, this
5 exhibit which we will mark as Exhibit 151 is
6 proprietary. Is this the document that you were
7 referring to in your late filed exhibit?

8 A. I am only hesitating because it looks
9 like something was cut and pasted on here. That's
10 my hesitation. Do you have the original?

11 Q. I believe it was a download, these are
12 all electronically stored.

13 A. It looks like something has been cut and
14 pasted in the center portion here, that's why I am
15 hesitating, on mine.

16 MR. ROSS: Let's go off the record a
17 minute.

18 (Discussion ensued off the record.)

19 THE WITNESS: To answer your question,
20 yes, it is.

21 MR. ROSS: Let's mark item No. 6 from
22 your late filed Exhibit No. 3 as Exhibit 151
23 and that is proprietary and should be treated
24 as such.

25 Q. (By Mr. Ross) Of the documents that we

1 have been discussing, Mr. Riolo, the only one that
2 appears to have been generated during the time that
3 you were performing audits on behalf of AT&T was
4 what we have marked as Exhibit 149 which is the
5 March 1965 Application of Resistance Design to
6 Subscriber Loop Plant; is that correct?

7 A. That would be in the time frame I was at
8 AT&T and these others would not be, that's correct.

9 Q. If I could ask you to look at Page 69 of
10 your rebuttal testimony.

11 At lines 11 and 12, you make the
12 statement that all new plant placed since the early
13 1980s should meet these engineering guidelines. Do
14 you see that statement?

15 A. I see that statement, but I would like to
16 read what context it is in if you are going to ask
17 me something on it.

18 Q. Certainly.

19 The engineering guidelines that are being
20 referred to in that statement are the CSA
21 guidelines, plant designed to CSA guidelines and SAC
22 since the 1980s. My question really was referring
23 to all new plants placed. Is it fair to say that
24 the engineering guidelines you describe in your
25 testimony and we have been discussing here, talking

1 about the placement of facilities, of new
2 facilities, rather than the treatment of facilities
3 that were already in the ground?

4 A. Certainly new facilities should be
5 designed according to the existing engineering
6 practices and guidelines. Existing facilities when
7 they were being rearranged or modified, again, would
8 be rearranged and modified in accordance with design
9 practices that exist.

10 Q. What about facilities that were not being
11 rearranged or modified, was there any practice or
12 requirement that an incumbent just simply on its own
13 initiative go and deload copper pairs?

14 A. Well, again, let us separate the two
15 guidelines that we are speaking of, two sets of
16 guidelines that we are talking of. One set of
17 guidelines talks to the issue of loading plant,
18 those guidelines predate the '80s. The issue of
19 carrier serving area guidelines which was instituted
20 in the '80s talked about segmenting plant and it put
21 together an orderly procedure for the migration of
22 the plant from its existing condition to its
23 ultimate condition or as we were referring to it in
24 past testimony as its present method of operation to
25 its future method of operation.

1 Q. Just for our discussion purposes, how
2 would you collectively refer to the guidelines and
3 practices that are set forth in your late filed
4 Exhibit 3 so we don't confuse them with the CSA
5 guidelines that you are discussing in your
6 testimony?

7 A. How would we characterize them in what
8 sense?

9 Q. So that when I am referring to them if we
10 have to draw a distinction between the CSA
11 guidelines and these other guidelines we can do so
12 and know what we are talking about.

13 A. The only way to make a very discrete
14 distinction would be to refer to them as a practice
15 resistance design practice as opposed to CSA
16 guidelines. The reason I couch it in those terms is
17 that carrier serving area touches upon the issue of
18 loading as an example. Resistance design practices
19 touch on the issue of loading in addition to other
20 things. So they have common issues that they each
21 speak to, so for the purposes of answering your
22 question, if I know why you are addressing or what
23 issue you are attempting to address in the practice,
24 then I can give you a more forthright answer.

25 Q. Let me do it this way. What I want to

1 focus on is plant that is not new construction and
2 that is not being rearranged or modified. Is there
3 any requirement in the CSA guidelines that you
4 describe in your testimony on Page 69 which would
5 obligate BellSouth to remove load coils from loops
6 less than 18 kilofeet?

7 A. No. But the CSA guidelines would dictate
8 that the geography be segmented into discrete pieces
9 and that those cables serve the area irrespective of
10 whether or not they are being touched today, would
11 be looked at and planned in such a way that any
12 future work that was going to be performed on those
13 cables would be performed in accordance with the CSA
14 guidelines. So even though the cable hasn't been
15 rearranged or modified today, the CSA guidelines is
16 a planning tool that allows you to project what the
17 ultimate configuration of the plant ought to be. So
18 that any point in the future that you perform
19 modification or rearrangement work, you should be
20 migrating the plant from its present mode of
21 operation into this future mode of operation that is
22 dictated by CSA guidelines. So while it wouldn't
23 tell you to stop everything you are doing today and
24 go out there and do something for that plant just
25 for the sake of CSA guidelines, it does in fact tell

1 you that when the opportunity exists to modify or
2 rearrange that plant then you should do it in
3 accordance with these guidelines and migrate the
4 plant toward the CSA guidelines, not go in the
5 opposite direction.

6 Q. As long as the opportunity never arose to
7 rearrange or modify existing plant it would not have
8 violated the CSA guidelines for BellSouth not to
9 have removed load coils from loops that are less
10 than 18 kilofeet?

11 A. Again, it is a mixture of two concepts.
12 CSA guidelines would have not said to do anything to
13 the plant. The resistance design guidelines would
14 have dictated that it should not have been loaded to
15 begin with.

16 Q. We will get to those in a minute.

17 A. As long as you understood that.

18 Q. Let me see if I can get you to answer the
19 question. Assuming the opportunity did not arise
20 for BellSouth to rearrange or modify some existing
21 facilities that were loaded, it would not have
22 violated the CSA guidelines for BellSouth not to
23 have removed load coils from those facilities?

24 A. That's correct.

25 Q. Let's talk about the guidelines or the

1 practices that are set forth in your exhibit, late
2 filed Exhibit 3 to your deposition.

3 A. Okay.

4 Q. Again, a situation where BellSouth -- it
5 is not new construction and it is not rearranging or
6 modifying existing facilities. Is it your view that
7 BellSouth, that these practices would have obligated
8 BellSouth to remove load coils from those
9 facilities?

10 A. Again, the CSA guidelines would have
11 presented no obligation to do work in any instance
12 where it wasn't planned for some other reason than
13 satisfying the guidelines, so to speak. But, again,
14 the resistance design guidelines could have said
15 that particular facility should not have been
16 designed as a loaded plant.

17 Q. Let me stop you there. We have moved
18 away from the CSA guidelines. Now I am talking
19 about the engineering practices, everything set
20 forth collectively in your late filed Exhibit 3.

21 A. Let's do that again.

22 Q. We are talking about a situation where it
23 is not new construction, it is not a rearrangement
24 or modification but again you have existing
25 facilities that have been loaded. Is it your

1 testimony that these practices set forth in your
2 late filed Exhibit 3 would have obligated BellSouth
3 to remove load coils from those facilities?

4 A. Only insofar as if those facilities had
5 been loaded by design error and it was subsequently
6 discovered that they were indeed misloaded or loaded
7 by design error, then BellSouth would have been
8 under some obligation to remove those load coils and
9 bring them up to standard.

10 Q. Looking back at your rebuttal and direct
11 testimony at Pages 169 through -- I am sorry, Pages
12 69 through 71, you begin with the statement that
13 incumbents should have been conditioning existing
14 plant as part of ongoing maintenance since the early
15 1980s. Is that your testimony?

16 A. Are you pointing me to a specific
17 location in here?

18 Q. I am looking at Page 69, lines 12 through
19 14 where you make the statement that, quote, ILECs
20 should have begun conditioning their existing plant
21 as ongoing maintenance since that time.

22 A. Yes.

23 Q. I assume that time is the early 1980s.

24 A. Yes.

25 Q. Then you go on from lines 15, 16, on to

1 Page 70 why you think conditioning should have been
2 performed as part of routine maintenance, do you see
3 that?

4 A. Yes, I do.

5 Q. Is it your testimony that BellSouth
6 should have been conditioning its existing plant as
7 part of ongoing maintenance since the early 1980s?

8 A. Yes. Insofar as the discussion that is
9 in my testimony, wherein the plant is being modified
10 or rearranged, installed, added to, whatever.

11 Q. So it is not your testimony, for example,
12 that if BellSouth were just simply on a routine
13 repair call to fix a service problem on a loop that
14 that would have triggered the obligation to
15 condition that loop or all the loops in a particular
16 binder group?

17 A. Again, if it was discovered that they
18 were loaded in error and could very well have been
19 causing plant conditions, substandard type of
20 service, then BellSouth would have been under some
21 obligation to remove load coils in that regard.

22 Q. Well, I want to make sure I understand
23 what you mean by had the plant been placed in
24 error.

25 A. If it had been loaded in error.

1 Q. Okay.

2 A. And it had been subsequently discovered
3 in the course of doing work, then that plant
4 condition should have been addressed. It is not any
5 more dissimilar to hazardous conditions that are
6 discovered in the normal course of events. Those we
7 address immediately because, you know, there is risk
8 to life and limb. Again, with plant conditions that
9 could degrade service or cause service affecting
10 trouble, when those are discovered, they likewise
11 should be treated.

12 Q. So you believe that the presence of load
13 coils degrades service?

14 A. The presence of load coils could degrade
15 service dependent upon the service that you are
16 putting on there. For example, you know, we
17 obviously know that DSL service will not work on
18 loaded plant. So it does affect that. That's an
19 extreme case, but it certainly affects that type of
20 service. Having multiple loads where because of a
21 craft error, someone puts two load coils on the same
22 cable pair at the same location, a double load, so
23 to speak, that severely degrades the transmission.
24 Loading plant improperly does not provide the
25 quality service that the practices speak to.

1 Q. Is it your testimony that the practices
2 here would -- that we have discussed in Exhibit 3
3 would have obligated a BellSouth technician who
4 simply comes across, comes out to repair a
5 particular out-of-service condition on a loop, that
6 would have obligated the repairer/technician to
7 remove load coils from that loop if they were on the
8 loop and condition the binder group in which that
9 particular group was contained?

10 A. Certainly --

11 Q. Yes or no, then you can explain.

12 A. No, because the technician does not do
13 this work of his or her own volition. They are
14 directed to do it by an engineering work order.

15 So if there is a design defect that was
16 discovered, it is incumbent upon the engineering
17 organization to issue an order to rectify that
18 situation. I don't know if you specifically meant
19 when a craftsman finds it should he stop everything
20 he is doing and fix it, that would have to be at the
21 direction of engineering.

22 Q. A repair, just a normal customer,
23 residential customer is out of service, something is
24 wrong with the loop, does the engineering group get
25 involved in that repair call by the service

1 technician?

2 A. No. An engineer typically does not get
3 involved on a service affecting trouble that a field
4 technician is dispatched on; but if you were talking
5 about deloading a whole cable as opposed to fixing a
6 trouble on one isolated customer service, the
7 technician would need additional authorization to do
8 more than just his particular trouble that he is
9 working on.

10 Q. And I guess what I am really interested
11 in is -- and if you have Exhibit 149 which is the
12 March 1965 Application of Resistance Design to
13 Subscriber Loop Plant Guidelines that you
14 discussed -- what I am looking for is some statement
15 in this guideline which would obligate BellSouth to
16 take affirmative steps to deload a loop as part of a
17 repair call or maintenance visit.

18 A. The practice states on the first page, as
19 an example, load all loops over 18 kilofeet. The
20 corollary so to speak is true, loops less than 18
21 kilofeet need not be loaded.

22 Q. And I understand that. I guess my
23 question was a little more specific. I don't think
24 anybody disputes that at some point in time loops
25 less than 18 kilofeet didn't need to be loaded but

1 where in this particular guideline or practice that
2 we have marked as Exhibit 149 does it obligate
3 BellSouth or the incumbent to affirmatively remove
4 load coils as part of routine maintenance or repair?

5 A. Certainly there isn't a specific line
6 item in this practice that directs you to do that in
7 those terms, but this is the practice at least at
8 this point in time to be followed, so to not follow
9 it would require action even though it would not
10 necessarily be specifically itemized on here.

11 Q. Is it fair that in looking at Exhibit 149
12 that it really doesn't address loops under 18
13 kilofeet at all explicitly with respect to load
14 coils?

15 A. Yes. But rather it addresses those over
16 18 kilofeet that then need to be loaded. The
17 practice speaks to design limits. So, you know, in
18 that regard it is not only load coils but other
19 limits of the plant.

20 Q. We can go through each one of these
21 exhibits, 148, 150, and 151, but are you aware of
22 any particular provision in these various practices
23 that would obligate BellSouth as part of routine
24 maintenance and repair to remove load coils from a
25 loaded loop that was less than 18 kilofeet, yes or

1 no then you can explain.

2 A. I would like to say yes from the point of
3 view that some of the additional guidelines get a
4 little more specific than the one we have been
5 looking at from 1965 and speak to the term that
6 loops less than 18 kilofeet should be nonloaded. So
7 in that regard, they are giving you a guideline that
8 says thou shalt not have loads less than 18
9 kilofeet.

10 Q. We will do it one at the time, then. If
11 you look at what we have marked as Exhibit 148 which
12 is the AT&T Exchange Area Transmission Revised
13 Resistance Design dated April 1, 1983, do you see
14 that?

15 A. Yes, I see that.

16 Q. I believe as part of the revised
17 resistance design rules there is the statement which
18 says that loops 18 kilofeet or less number
19 nonloaded, do you see that?

20 A. Yes, I do.

21 Q. Is it your testimony that this guideline
22 obligated all of the regional Bell operating
23 companies to immediately remove load coils from
24 every loop that is less than 18 kilofeet in their
25 existing network?

1 A. No, it did not. There obviously are
2 instances where circuits are designed to have load
3 coils irrespective of the lengths shown in these
4 practices. So in that regard they fall outside of
5 the design criteria shown here but maybe included in
6 some of your question.

7 Q. Let's talk about, let's remove the
8 circuits that have been designed to account for some
9 amount of load coils. Is it your testimony that the
10 revised resistance design that we have marked as
11 Exhibit 148 triggered the obligation on behalf of
12 BellSouth and other RBOCs to remove load coils from
13 every loop less than 18 kilofeet?

14 A. Yes, in terms it would be a violation of
15 the guidelines.

16 Q. So you don't read Exhibit 148 to talk
17 about or to address new placement of new
18 facilities.

19 A. No. The revised resistance design
20 certainly includes new facilities but the design of
21 copper plant could be something other than just
22 brand new cable.

23 Q. Now, you make the statement that
24 BellSouth -- and I take it that your view is that
25 BellSouth should have been removing all of these

1 load coils from its embedded plant beginning, I take
2 it, in April of 1983.

3 A. They should, yes, they should have been
4 removing load coils from its embedded plant where
5 they were in violation of design criteria. Again,
6 obviously where they were designed that way there
7 was no obligation to correct the situation that
8 didn't need to be corrected.

9 Q. And your testimony is that BellSouth was
10 obligated to do that beginning of April of 1983, I
11 mean, as part of some initiative to comply with
12 these guidelines?

13 A. Well, certainly to comply with the
14 guidelines of 1983 they would have been under some
15 obligation, you know, to meet the obligation of the
16 1965 guideline, they should have been doing it in
17 1965 as well.

18 Q. But your testimony beginning on Page 69
19 talks about conditioning as part of routine
20 maintenance. I believe you have indicated that
21 BellSouth should have been removing load coils as
22 part of modifications or rearrangements, correct?

23 A. Yes.

24 Q. But now you are testifying that not only
25 was BellSouth obligated to remove load coils in

1 connection with rearrangements and modifications, it
2 actually was obligated to remove load coils from any
3 loop less than 18 kilofeet assuming that it hadn't
4 been designed to account for load coils; is that
5 correct?

6 A. Yes, that is.

7 Q. That obligation should have been, in your
8 view was triggered notwithstanding whether BellSouth
9 ever did any rearrangements or any modifications to
10 that particular loop; is that your testimony?

11 A. Yes, insofar as if the load coils were on
12 a cable due to the fact that it was improperly
13 designed, then some initiative should have been
14 undertaken by BellSouth to correct that situation
15 and to bring it up to standard.

16 Q. What initiative did Bell Atlantic
17 undertake or NYNEX at the time when you were
18 employed with the company beginning in 1980 around
19 the time these guidelines were adopted to
20 affirmatively remove load coils from all of its
21 loops less than 18 kilofeet assuming they hadn't
22 been designed to account for load coils?

23 A. I can speak to, obviously, my personal
24 experiences as an engineer and as a manager of
25 engineers. The preponderance of time was spent in a

1 Manhattan environment which had only nonloaded loops
2 so to that extent it would not have applied. We
3 didn't have loads on those cables. There were,
4 however, in the interoffice plant that I worked on
5 load coils and there were instances where we opted
6 to reuse an interoffice copper cable for subscriber
7 purposes. And we did indeed remove the load coils
8 from that loaded interoffice facility.

9 Q. Is flash cut beginning in April of 1983
10 or over time?

11 A. My experience when I used that cable as
12 part of design of reusing the cable, we designed it
13 properly. The proper design called for a nonloaded
14 cable so the loads were taken off the cable.

15 Q. So is it fair to say in the situation you
16 just described when you came across a particular
17 cable that was loaded that in your view should not
18 have been, then you would do something about it?

19 A. Yes. I think that is what I am trying to
20 convey to you. I don't know what impression you
21 have that leads you to believe otherwise.

22 Q. My impression is -- and maybe I
23 misunderstood you -- but my impression was that your
24 testimony is when these guidelines, the guidelines
25 we have marked as Exhibit 148 being an example, took

1 effect that Bell Atlantic and BellSouth was
2 affirmatively obligated to identify every instance
3 in its network in which it had loaded facilities
4 that didn't comply with these guidelines and to then
5 remove those load coils to comply with the
6 guidelines. Did I misunderstand your testimony?

7 A. We must have misunderstood each other. I
8 didn't lead you to believe or at least I don't think
9 I led you to believe that there was some affirmative
10 action that occurred on the issuance of this
11 particular design practice, wherein the incumbent
12 LECs went out and looked at all their plant and
13 decided which ones did or did not fit the criteria.
14 The criteria goes back for quite some time. It
15 spans at least with the practices here since 1965 so
16 to that extent it is 35 years, well beyond the
17 useful life of the plant that these design practices
18 have been in effect. So the point I was attempting
19 to convey was that whenever a substandard condition
20 is found in plant, it should be addressed.

21 Substandard conditions can come in many
22 flavors. Again, there are safety types that you
23 address immediately. There are transmission types
24 that may not be as high a priority as a safety
25 problem. But you are still under some obligation to

1 address and correct the situation.

2 Q. Let me ask it this way. Maybe I did
3 misunderstand you, but is it your testimony that any
4 of the guidelines that we have said affirmatively
5 obligated BellSouth to identify every instance in
6 which it had loaded facilities that may not have
7 complied with these guidelines and correct that
8 condition?

9 A. No, not as a program on the date of
10 issuance to go forward and to identify each and
11 every cable and how it is loaded, no.

12 Q. So your testimony is as BellSouth in the
13 course and practice of maintaining its network
14 discovered situations in which its network did not
15 comply with these guidelines, it was obligated in
16 your view to correct that condition?

17 A. Yes.

18 Q. Let's talk about your proposal that --
19 let me back up just a minute. We have been talking
20 mostly about load coils. Is it your view that these
21 same guidelines and same practices require BellSouth
22 to remove bridged tap to the extent it did not
23 comply with these guidelines with respect to bridged
24 tap?

25 A. Yes.

1 Q. Going back to the question of how many
2 loops should be conditioned at a time. Your view is
3 that 50 pair on average should be conditioned at a
4 time; is that correct?

5 A. Yes, that is.

6 Q. And you have in your testimony outlined
7 proposed rates for that work or actually work
8 activities and costs associated with that work,
9 assuming the commission agrees that the cost of loop
10 conditioning should be recovered from the ALECs; is
11 that correct?

12 A. Yes, it is.

13 Q. Now, in looking at the development of
14 those costs and how you came up with the 50 pair --
15 let me see if I can find the page. Actually you
16 discuss the work activities at Pages 92 and 93 of
17 your testimony. I want to make sure I understand
18 the practical implications of what it is that you
19 have proposed. I want to give a hypothetical in
20 order to do that. Assume for a moment that one of
21 your clients, Covad, asks for a particular copper
22 loop to be deloaded, to remove load coils and
23 bridged tap and under your view BellSouth should
24 then go to that binder group in which that
25 particular loop is located and remove the load coils

1 from that loop as well as the other 49 pair that are
2 in the binder group, is that correct, assuming no
3 spare facilities, et cetera?

4 A. Not exactly because you are assuming a
5 50-pair binder group and they may not be a 50-pair
6 binder group, rather 25-binder or 100-pair units.
7 On average I was stating 50 cable pairs should be
8 deloaded on average.

9 Q. Let's take 25. I am just trying to
10 understand the concept so the number really is
11 irrelevant. Let's make it 25-pair binder group.
12 Just so I am clear, assuming that the pair that
13 Covad has asked to be deloaded is in a 25-pair
14 binder group, is it your view BellSouth should
15 deload that binder group then another 25-pair binder
16 group on top of that?

17 A. No. Not exactly. Let me explain to you
18 what was going on.

19 We spoke in terms of averages, average 50
20 pair should be deloaded because typically outside
21 plant starts at the central office as a relatively
22 large cable and tapers as it proceeds to the end
23 user or into the distribution plant. So it is kind
24 of fat at the central office and skinnies down
25 towards the customer end and in that regard looks

1 like what they typically call a pine tree.

2 The opportunity for deloading is
3 obviously greater at the central office end where
4 the cable is fatter than it is at the end user end
5 where the cable typically is smaller. I say that
6 50-pair deloading average is a reasonable average
7 because near the central office you could typically
8 deload several hundred pairs at one time whereas at
9 the end user's location you typically would deload
10 much fewer pairs than that, you know, less than a
11 binder group, perhaps.

12 Q. Let's go back to the example where it is
13 a 25-pair binder group that is being deloaded and
14 BellSouth deloads the one pair to meet Covad's order
15 and at the same time deloads the 24 other pair in
16 that particular binder group. How is it under your
17 view of the world BellSouth is to recover the cost
18 of deloading the other 24 pair that Covad has not
19 requested but that someone next week or the week
20 after may request?

21 A. It is my understanding, No. 1, that the
22 loops that would be requested by Covad, for example,
23 would be for DSL purposes, therefore would be 18
24 kilofeet or less and therefore should not be loaded
25 to begin with. So under that set of criteria, the

1 cost recovery issue is not really an issue but
2 rather an obligation on BellSouth's part.

3 Q. Let's assume the commission doesn't agree
4 with you on that, all these questions should be -- I
5 understand your stand on that issue. But assume the
6 commission says BellSouth is entitled to recover the
7 cost of loop conditioning and going to my question
8 where BellSouth has commissioned 25 pair, only 11
9 pair is requested by Covad, how is BellSouth to
10 recover the loop conditioning costs caused by the
11 other 24 pair?

12 A. That would be in my view an obligation on
13 the part of BellSouth as part of its normal
14 maintenance procedures.

15 Q. I take it from that that you would
16 understand BellSouth's retail customers to absorb
17 the costs of conditioning those other 24 pair?

18 A. It would be an expense to BellSouth.

19 Q. But I just want to understand, it is an
20 expense of BellSouth no matter, whatever, BellSouth
21 is doing the work. My question is is that an
22 expense that you believe ought to be borne by
23 BellSouth's retail customer. That's a yes-or-no
24 question.

25 A. Yes. To the extent that BellSouth has

1 foisted upon its customers the cost of that load
2 coil initially that should not have been there, they
3 are now obligated to take that load coil off. So
4 they have costed, if that's a word, they have caused
5 their customers to pay for something that should not
6 have been on there to begin with.

7 Q. And continuing my hypothetical where
8 Covad has asked for the one loop to be deloaded, and
9 BellSouth under your proposal deloads the entire
10 25-pair binder group, the very next day Rhythms
11 comes in asking for loop No. 2 in that same binder
12 group, it already has been conditioned, your view is
13 that BellSouth should charge Rhythms nothing for the
14 work it had previously done at the behest of Covad?

15 A. Yes, insofar as the plant had been
16 brought up to standard there should not have been an
17 obligation on the part of even Covad initially to
18 pay for it. That has been my position. The only
19 reason we are talking to the term of Covad paying
20 for the first pair would be if the commission sees
21 fit to charge the CLECs for BellSouth's lack of
22 following its own practices.

23 Q. But just so I am clear, your position is
24 even assuming the commission finds BellSouth is
25 entitled to recover the cost of loop conditioning,

1 under your proposal BellSouth is only entitled to
2 recover the cost of unloading one pair or however
3 many pair are actually ordered by the CLEC that
4 triggers the conditioning of the loops; is that
5 correct?

6 A. Yes, it is.

7 Q. Can I ask you to look at Page 43. I am
8 going to change subjects, moving away from loop
9 conditioning, much to your chagrin, I know, and talk
10 about loop qualification for just a minute.

11 At the bottom of Page 43, beginning at
12 line 17 through 21, you talk about the information
13 that competitors require to determine the
14 suitability of a loop for provisioning xDSL service,
15 do you see that?

16 A. Yes.

17 Q. You make the statement that it is
18 necessary to determine the type of facility, i.e.,
19 copper end to end or an amalgam of fiber, copper,
20 electronics. Do you see that?

21 A. Yes, I do. XDSL.

22 Q. Why is it that a type of facility is
23 necessary for a competitor such as Covad or Rhythms
24 to determine whether it can offer its xDSL service?

25 A. As an engineer there are various design

1 criteria you need to satisfy in order to provision a
2 service. Let us take the case of copper loop. The
3 copper loop should be no greater than a certain
4 distance, should have certain characteristics of
5 capacitance and balance and such and if it satisfies
6 those criteria, then a CLEC is enabled to provision
7 certain grades of service on that, similar to what
8 BellSouth does. On the other hand, if the loop is a
9 composite of fiber and electronics and copper, a
10 different set of criteria needs to be satisfied for
11 the provisioning of very similar, if not exactly the
12 same, types of services; therefore the engineers in
13 the CLECs would need to know the criteria so that
14 they could design based on that criteria.

15 Q. Let me make sure I understand. If you go
16 on to look at the answer you give on 43, you seem to
17 draw a distinction between the type of facility,
18 i.e., copper, end to end or an amalgam of copper,
19 fiber and electronics on one hand versus the
20 characteristics of facility such as the length, the
21 gauge and some of the other factors you just
22 mentioned. Did I understand your testimony
23 correctly?

24 A. You need to know both of those.

25 Q. My question is why does the data LEC need

1 to know the first category of information, that is,
2 whether it is copper end to end or an amalgam of
3 copper, fiber and electronics?

4 A. It is conceivable that certain services
5 may or may not be provisionable if the first set of
6 criteria are different or not set.

7 Q. But by that you mean, for example, if a
8 particular facility is a mix of copper and fiber
9 that is being served by a DLC system that a
10 particular xDSL service may not function over that
11 particular arrangement?

12 A. Yes. Similarly in a copper loop if it
13 doesn't meet certain criteria, a similar service may
14 not be provisioned on it as well, as you can
15 recognize.

16 Q. Looking at your rebuttal at Page 9, at
17 the very bottom of the page, lines 22 through 23.

18 A. 9.

19 Q. Page 9 of your direct rebuttal I think is
20 what you call it.

21 A. Have I --

22 Q. Bottom of the page, lines 22 and 23
23 continuing on the following page.

24 A. Yes.

25 Q. In this part of your testimony, you are

1 discussing that in fiber-fed arrangements for longer
2 loops, which I assume are being served by DLC, that
3 you may need a particular type of DLC remote
4 terminal, a particular type of channel unit and a
5 particular type of plug-in card that may be
6 different from the voice-only facilities that are in
7 place to provide voice to that customer; is that
8 correct?

9 A. Not necessarily particular as much as
10 certain generation of equipment and particular
11 plugs. Yes.

12 Q. Let me just see if I can use an example.
13 You have got a particular type of DLC system that is
14 being used to provide service to a particular end
15 user. Is it your testimony that in order to provide
16 xDSL service to that particular customer you may
17 need a different type of DLC system or a different
18 type of line card in order to make the xDSL service
19 work under that arrangement for that particular
20 customer?

21 A. Yes, with a couple of caveats.

22 Q. Okay.

23 A. Firstly, the service that you are
24 presently provisioning is a voice grade service and
25 now you are attempting to put a DSL service on it.

1 Obviously if you are provisioning DSL service then
2 all things would stay the same, perhaps.

3 But again with the caveat that initially
4 there is voice service and now you want to provision
5 DSL type service, the criteria that would then be
6 looked at, would be the generation of DLC equipment
7 whether it was DSL compatible or upgraded to DSL
8 capability; and if it is indeed capable of DSL
9 service, then the requirement would be of the type
10 of plug that would be necessary to drive the
11 particular type of DSL service that would be
12 required.

13 Q. Going back to something you just stated,
14 that assuming that the customer's presently getting
15 some type of DSL service in addition to voice over
16 the existing facilities, you said all things being
17 the same, service might work, perhaps. Is it fair
18 to say that just because a particular xDSL service
19 is working over a particular arrangement doesn't
20 necessarily mean that every xDSL service will work
21 over that same arrangement?

22 A. That's correct.

23 Q. Now, when it comes to providing just
24 voice service, basic vanilla voice service, do you
25 have to consider such technical issues as the type

1 of DLC equipment that is in use or the type of line
2 cards? I mean, as long as we have a DLC system and
3 a voice line card, that's enough to make voice work,
4 isn't it?

5 A. All the DCL systems to my knowledge that
6 I can think of off the top of my head provision at
7 least voice grade service, whether certain types of
8 voice grade service, whether it is a loop service as
9 opposed to ground service might require the need for
10 a different type of plug. But in general type of
11 terms VF type service, yes, they are capable of VF
12 service.

13 Q. Let me ask you to look at Page 30 through
14 31, actually, I guess it is Page 29 through 31 of
15 your testimony. This is the last group of questions
16 I have so after this we will be done.

17 You summarize your findings on this
18 particular page concerning the assumptions that you
19 believe ought to be incorporated into BellSouth's
20 nonrecurring cost studies; is that correct?

21 A. Yes, it is.

22 Q. Now, I understand that this testimony was
23 filed before BellSouth filed its revised cost
24 studies so I want to see to what extent some of
25 these assumptions have changed and in particular the

1 service inquiry assumption that you believe ought to
2 be 10 percent of the orders. Has that
3 recommendation changed as a result of the revisions
4 that BellSouth has made to its cost studies?

5 MS. BOONE: Bennett, are you referring
6 to a particular revision? Maybe you could
7 direct the witness to that.

8 MR. ROSS: If the witness can't answer
9 my question, I will certainly elaborate on
10 it. He is thinking.

11 THE WITNESS: I am thinking because I
12 obviously read both the beginning and the end
13 stories.

14 Certain information -- and I will have
15 to go through calculations to figure out --
16 but, for example, in Group I service inquiry,
17 we have a number 52 percent of the orders on
18 my chart, that was listed as BellSouth's
19 reported time. That number was changed on a
20 revised study. Now I have to look at, you
21 wanted to know which numbers have changed or
22 not changed?

23 Q. (By Mr. Ross) Well, I am not asking you
24 which of BellSouth's numbers have changed, I am
25 asking which of your recommended adjustments has

1 changed, if at all, as a result of the adjustments
2 to BellSouth's cost studies.

3 A. BellSouth changed the number of 52
4 percent, I still believe it should be 0 minutes, it
5 should be mechanized which is the next column over.
6 The third column over where we talk of 30 minutes on
7 10 percent of the orders, as a result of a manual
8 look up of paper records, I heard in testimony when
9 I was in Tallahassee that Map Viewer has a great
10 deal more functionality than I knew about when I
11 even made this up. So I feel comfortable that the
12 numbers here are conservative, if anything. So I
13 will stay with these numbers.

14 Q. Do you understand that BellSouth has
15 essentially proposed now two different types of
16 costs, one if the ALEC does the loop makeup itself
17 and another one if the ALEC decides for whatever
18 reason not to do the loop makeup, it wants BellSouth
19 to do it. Do you understand that?

20 A. Yes.

21 Q. In the second category, if an ALEC
22 decides not to do the loop makeup and requires
23 BellSouth to do it, it is going to require a manual
24 service inquiry of some sort on a hundred percent of
25 those types of orders.

1 A. If you are speaking to the point of could
2 it be an electronic arrangement where an inquiry
3 comes over and goes through a BellSouth system and
4 comes back, to that extent, yes, I can foresee it
5 happening. And I could see some BellSouth
6 involvement. I don't know if that answers your
7 question.

8 Q. I am not sure it does. Let me see if I
9 can follow up just a minute and maybe we can get to
10 the bottom of it. Your statement that the service
11 inquiries should take 30 minutes and should only
12 apply to 10 percent of the orders, what I am trying
13 to find out is in the category of orders where the
14 ALEC is saying to BellSouth, look, I don't want to
15 do the loop makeup, you do it, isn't that
16 necessarily going to mean that a hundred percent of
17 the time on those particular orders BellSouth is
18 going to have to do some service inquiry in order to
19 determine the loop makeup?

20 A. I would like to answer you quickly but I
21 just want to look through the pieces that comprise
22 that.

23 Q. That's fine.

24 A. To see what would be affected, if
25 anything.

1 I think to answer your question for those
2 instances where for whatever reason a CLEC would
3 request BellSouth on a service inquiry to do the
4 loop makeup, that there would be some interface that
5 would have to go on between the two, between
6 BellSouth and the CLEC and therefore would require
7 something on the part of BellSouth for those
8 specific cases that are being addressed, the time
9 involved to do that I would see as being somewhat de
10 minimis insofar as all of those functions should be
11 highly automated on a forward-looking basis. So yes
12 a hundred percent of the time but the time would be
13 very minimal.

14 Q. More minimal than 30 minutes, less
15 minimal than 30 minutes?

16 A. Yes, insofar as if you read the
17 transcript of Murphy who says, for example, that the
18 LCSC wouldn't even be involved, they wouldn't exist
19 if it was an automated system. So one of the three
20 components of the service inquiry wouldn't exist if
21 that was indeed automated. On a forward-looking
22 basis, automation seems a reasonable thing.

23 Q. My question really is you said that the
24 10 percent of the order assumption is no longer
25 valid in the category of cases where the CLEC is

1 asking BellSouth to do the qualification.

2 A. Yes.

3 Q. My question is, instead of 30 minutes
4 what are you actually proposing to the commission?

5 A. I would propose that the number be
6 substantially less insofar as it should be provided
7 on a more automated basis since the automation
8 exists to some extent already. Mr. Pate, I believe,
9 said in testimony that the Map Viewer system can
10 generate a loop makeup in a matter of minutes. I
11 was basing 30 minutes on experience of me doing it
12 manually, and countering Mr. Zitsman who claimed it
13 would take 2-1/2 hours.

14 Now, I can do a loop makeup and my
15 clerical force was able to do a loop makeup in 30
16 minutes or less, so I thought 30 minutes was a
17 reasonable alternative on the basis of doing it
18 manually. With the hindsight now of being in the
19 Tallahassee hearing and listening to Mr. Pate say
20 that for a hundred percent of the cases in Florida,
21 Map Viewer is able to generate this same loop makeup
22 in a matter of minutes by pressing a button and out
23 it comes, I think 30 minutes is much too generous.

24 Q. Did you propose a different
25 recommendation to the commission in your

1 supplemental rebuttal testimony on this point?

2 A. I believe, I do not think I put a
3 supplemental rebuttal piece together on that
4 particular portion.

5 Q. Let's look at the engineering times. You
6 also have various 15 minutes, 18 minutes and
7 eight-minute assumptions based on essentially 1
8 percent of the orders.

9 A. Yes.

10 Q. Have you presented this commission with
11 any studies or data that would support your
12 1-percent assumptions that you have used in
13 connection with the engineering work times?

14 A. No, I have not. It is based on what I
15 feel is as reasonable experience with automated
16 systems. While I am certainly no automation expert
17 my exposure to systems such as LFAX on normal POTS
18 grade service, they are able to generate
19 flow-throughs that are substantially similar to
20 this.

21 Q. Likewise, when you have provided
22 recommendations on the SSI&M group, outside plant,
23 the work times you associated with 20 percent of the
24 loops, have you submitted any studies or data that
25 would support use of that particular assumption to

1 this commission?

2 A. No, I have not. It was based on the
3 amount of dispatch that occurs when BellSouth
4 provisions its own voice grade services, they don't
5 dispatch on every one, they dispatch on about 20
6 percent. Since these services for all intents and
7 purposes are similar to voice grade services in this
8 regard, there is no reason why it should exceed that
9 amount.

10 Q. When you say it is similar to voice grade
11 services, do you know what the cost is to a
12 BellSouth retail customer to order voice grade
13 service from BellSouth in the state of Florida?

14 A. No, I do not.

15 MR. BENNETT: I think that's all my
16 questions. We were the last party to cross
17 except for the staff.

18 MS. BOONE: I have a very brief
19 redirect.

20 MR. ROSS: Diana, the witness is yours
21 if you want him.

22 MS. CALDWELL: Staff has no questions.

23 DIRECT EXAMINATION

24 BY MS. BOONE:

25 Q. I have some very quick redirect here.

1 Mr. Riolo, Mr. Ross asked you about why
2 DSL providers need to know about whether a loop is
3 made up of fiber or fiber and copper. Do you
4 remember those questions?

5 A. Yes, I do.

6 Q. Will BellSouth allow a data CLEC to buy
7 DSL over a fiber-fed loop at this time?

8 A. Not to my knowledge.

9 Q. Are there any other ILECs that you know
10 of that are allowing this option?

11 A. SBC has proposed language that would
12 permit CLECs to offer DSL services over their
13 Project Pronto network which is comprised of fiber
14 and electronics.

15 Q. You talked a little bit about the types
16 of DLCs that may be required for this type of
17 functionality. From your review of the BellSouth
18 data have you reached any conclusions about
19 BellSouth's plans to deploy what is called next
20 generation DLC?

21 A. Yes, I have.

22 Q. What are those conclusions?

23 A. Without speaking of proprietary types of
24 equipment, BellSouth is proposing to use next
25 generation DSL capable types of electronics in

1 connection with their fiber and remote terminal
2 locations.

3 Q. Earlier in the cross-examination Mr. Ross
4 was asking you about Bell Atlantic and its process
5 of removing load coils. Having worked for Bell
6 Atlantic, you quote some of the Bell Atlantic
7 testimony in your testimony. Is it likely in your
8 understanding that Bell Atlantic would publicly
9 state it is violating a design guideline?

10 A. Well, I don't think any business
11 organization would publicly claim they are violating
12 things if they could couch it in terms that are more
13 sophisticated, so to speak, and would lead to the
14 same conclusion, that they would remove the load
15 coils at no cost. So the end purpose is achieved
16 and the embarrassment is avoided.

17 Q. Can you think of any other reason why
18 Bell Atlantic would decide not to charge for moving
19 load coils other than it is violating guidelines?

20 A. No, I cannot.

21 Q. We have talked about a lot of design
22 criteria guidelines here today. Is it fair to say
23 that your opinions and your testimony are based on
24 30 years of your review of these type of guidelines?

25 A. Yes, it is.

1 Q. As well as based on your experience in
2 the field?

3 MR. ROSS: Objection. This is
4 redirect, not leading the witness. I know
5 that this is informal, but I would ask that
6 counsel at least pay lip service to that
7 requirement.

8 MS. BOONE: Certainly.

9 Q. (By Ms. Boone) You talked a little bit
10 about the need to remove load coils when
11 rearrangements or modifications are made to plant.
12 Do you remember that discussion with Mr. Ross?

13 A. Yes, I do.

14 Q. What types of rearrangements or
15 modifications would trigger this type of proactive
16 removal of load coils, for example, would
17 transferring or putting in place a DLC unit?

18 A. In connection with putting in a more
19 modernized plant infrastructure such as fiber DLC,
20 the opportunity to reuse the copper cable that
21 previously had served that community exists. So the
22 engineer is then faced with an economic decision on,
23 No. 1, is it reasonable from a cost point of view to
24 modify the existing copper plant and to reuse it
25 somewhere else; or No. 2, to retire that cable in

1 place or to remove it completely and rather serve
2 whatever community he was going to serve with that
3 reused copper cable, serve it some other way so
4 there are several economic choices that get weighed
5 and ultimately decisions made.

6 If the decision is made to reuse the
7 copper cable, then it should be reused in the
8 prescribed practices or in accordance with
9 prescribed practices. That is, if the cable is
10 going to be removed, reused closer to the central
11 office such that the length of the longest loop
12 would be less than 18 kilofeet, then any preexisting
13 load coils -- and by the way, there are other
14 devices on cables besides load coils but all of
15 those types of things would be taken into account
16 and they would be redesigned, so to speak. So the
17 modification would be you remove the load coils or
18 in the case where they might have had some
19 artificial build outs like lattice networks and
20 built out capacitors and such, those would all be
21 removed as well.

22 Q. As you may recall from the BellSouth
23 testimony, BellSouth has testified that it is
24 removing load coils for DSL mostly in metropolitan
25 areas. Do you recall that testimony?

1 A. BellSouth is removing load coils.

2 Q. That's where it finds the opportunity to
3 remove them, largely in metropolitan areas.

4 A. Okay.

5 Q. Do you recall that? If you don't, that's
6 fine, you can move on.

7 A. This afternoon?

8 Q. No. Way back. Sorry. At the hearing.

9 A. At the hearing. Give me the question
10 again. I was trying to recollect Mr. Ross saying
11 this. Go ahead.

12 Q. Do you recall BellSouth's testimony that
13 DSL is rolling out first in metropolitan areas and
14 therefore it is being called upon to remove load
15 coils mostly in the metropolitan areas?

16 A. Yes, I do.

17 Q. In your experience, what are the chances
18 that these cables in metro areas have not been
19 rearranged or modified since either the CSA
20 guidelines or the RRD guidelines came out?

21 A. Well, it has been my personal experience
22 that the amount of churn, that is, services moving
23 in and out and the requirements associated with the
24 churn to perhaps relieve and rearrange the plant is
25 certainly greater in the metropolitan areas than --

1 urban areas than it is in more rural environments.
2 So to that extent and given the fact that CSA
3 guidelines have been here since 1980 or some 20
4 years now, there has been at least in my mind
5 tremendous opportunity to address the plant in
6 metropolitan areas.

7 Q. Do you remember during the hearing Mr.
8 Edenfield questioning you about the videotape
9 BellSouth showed of load coil removal?

10 A. Yes, I do.

11 Q. And how large was that cable that was on
12 the videotape, do you recall?

13 A. 2700-pair pulled cable.

14 Q. In your experience, how many spares would
15 be found in a cable of that size?

16 A. Well, in order to explain that, I have to
17 step back a little bit. Typically outside plant
18 engineers build cable for the service requirement,
19 that is, when the data goes in service how many
20 facilities are required as of that date, plus some
21 modicum of spare which usually is three to five
22 years' worth of growth that they foresee and the
23 cable is sized accordingly.

24 When I say accordingly, cables come in
25 discrete size as far as their manufacturer. The

1 next size cable that would satisfy the requirement
2 is generally the one that is selected. There are
3 other criteria that come into effect, for example,
4 if the entrance facilities into a central office are
5 relatively filled, then the engineer might choose to
6 up size the cable as well at least in the first
7 couple of sections leaving the office. But all
8 things considered, a cable size of 2700, for
9 example, that was selected would typically start
10 serving its purpose and the engineering forces would
11 monitor that cable so that at the proper point in
12 time when and if it came some relief could be
13 planned and engineered and constructed so that the
14 facilities would never totally exhaust and lines be
15 held for service pending a new relief cable.

16 So this monitoring process goes on and
17 typically we don't start monitoring cables when they
18 are at very low fill rates, fill rate being the
19 amount of workers over the total amount of pairs
20 available, but rather we start to monitor it when it
21 gets close to what we call a trigger point.

22 The trigger point is a flag that goes up
23 and alerts the engineer that a particular cable is
24 at a certain percent fill. And the engineer can set
25 that at any number he really desires but generally

1 in the industry 85 percent is a typical number. So
2 whether a 2700-pair cable is working 85 percent or
3 has only 15-percent spare, so on a 2700 that would
4 be roughly 400 spare pairs would be left, the
5 engineer would get an alert and it would say
6 80-percent filled, therefore he has 400 spares. He
7 looks at what the growth rate has been over the last
8 couple of years and if 400 pairs will satisfy the
9 immediate future nothing will be done. If, on the
10 other hand, that particular route is growing at 500
11 pairs a year, he knows he has less than a year's
12 worth of facilities left before he exhausts so he
13 would typically start designing a new job.

14 So to answer your question in a rather
15 long-winded way, there were about 400 spares
16 typically in that cable even if it was at its
17 trigger point.

18 Q. Is it your belief that the engineer could
19 have elected to remove more than 25 load coils from
20 that cable?

21 A. Well, certainly the opportunity, if there
22 were 400 spare pairs, the opportunity would exist to
23 remove more than 25 or 50. If the cable should not
24 have been loaded to begin with, you know, I dare say
25 a great deal of those should have been nonloaded but

1 the engineer would make that determination and the
2 opportunity would be there.

3 Q. Mr. Ross asked you some questions about
4 the differences in time of removing one load coil as
5 opposed to 50. In your testimony you have a chart
6 of the times it takes to remove load coils. What
7 would you say generally is the difference in the
8 time it takes to remove one and removing 50 load
9 coils?

10 A. Generally in the world of construction
11 the wire work is typically a small part of the total
12 job. As you can see from even BellSouth's tape, the
13 time it takes to set up and pump and open up and do
14 all of those ancillary things before you actually
15 get on the wires is what consumes most of the time.
16 The wire work itself is a rather small portion. So
17 whether you are removing one pair or 25 pairs, the
18 amount of additional time is very slight, matter of
19 minutes.

20 MS. BOONE: I have no further
21 questions.

22 MR. ROSS: I think we are done. Let's
23 go off the record for just a minute.

24 (A discussion ensued off the record.)

25 (Concluded 3:00 p.m.)

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INDEX TO EXHIBITS

Exhibit	Description	Page
148	AT&T Practice 902-115-101	15
149	March 1965 AT&T Practice	15
150	Gauging of Distribution Cables November 1998	16
151	Proprietary Document	17

(Exhibits 148 through 152 have not been attached to the original transcript but have been retained by Mr. Ross.)

1 C E R T I F I C A T E

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3 STATE OF GEORGIA:

4 COUNTY OF FULTON:

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I hereby certify that the foregoing transcript was taken down, as stated in the caption, and the questions and answers thereto were reduced to typewriting under my direction; that the foregoing pages 1 through 64 represent a true, complete, and correct transcript of the evidence given upon said hearing, 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.

18

 This, the 17th day of October, 2000.

19

20

21

22

RENDA K. CORNICK, CCR-B-909
My commission expires on the
26th day of November, 2000.

23

24

25

1 COURT REPORTER DISCLOSURE

2 DEPOSITION OF: JOSEPH P. RIOLO

3 Pursuant to Article 8.B. of the Rules and
 4 Regulations of the Board of Court Reporting of the
 5 Judicial Council of Georgia which states: "Each
 6 court reporter shall tender a disclosure form at the
 7 time of the taking of the deposition stating the
 8 arrangements made for the reporting services of the
 9 certified court reporter, by the certified court
 10 reporter, the court reporter's employer, or the
 11 referral source for the deposition, with any party
 12 to the litigation, counsel to the parties or other
 13 entity. Such form shall be attached to the
 14 deposition transcript," I make the following
 15 disclosure:

16 I am a Georgia Certified Court Reporter. I am
 17 here as a representative of Brown Reporting, Inc.

18 Brown Reporting was contacted by the offices of
 19 BellSouth Telecommunications
 20 to provide court reporting services for the
 21 deposition. Brown Reporting will not be taking this
 22 deposition under any contract that is prohibited by
 23 O.C.G.A. 15-14-37(a) and (b).

24 Brown Reporting has no contract/agreement to
 25 provide reporting services with any party to the
 case, any counsel in the case, or any reporter or
 reporting agency from whom a referral might have
 been made to cover this deposition. Brown Reporting
 will charge its usual and customary rates to all
 parties in the case, and a financial discount will
 not be given to any party to this litigation.

18 /s/ Renda K. Cornick, CCR-B-909 101000

19 Signature of attorneys present: Date:

20 /s/ No attorney signature

21 /s/ No attorney signature

22 /s/ No attorney signature

23 /s/ No attorney signature

24 Return this form after review and/or signatures to
 the court reporter for inclusion in the record.

25 Please use reverse side for additional signatures.

1 CHAIRMAN DEASON: Very good. The next scheduled
2 witness was --

3 MS. KAUFMAN: Commissioner Deason, I think that
4 we had some matters that were left over from the hearing
5 on that Thursday night. We had moved or identified for
6 the record items Number 144, 145, 146, 147. They were
7 identified, they need to be moved into the record.

8 CHAIRMAN DEASON: 144, 145, 146, and 147?

9 MS. CALDWELL: That is correct.

10 CHAIRMAN DEASON: They were all identified, but
11 we did not get to the stage of the hearing to actually
12 move those into the record?

13 MS. CALDWELL: That is correct.

14 CHAIRMAN DEASON: Okay. Exhibits 144 through
15 147, any objection to the admittance of those exhibits?
16 Hearing no objection, show then that Exhibits 144 through
17 147 are admitted.

18 (Exhibit 144 through 147 admitted into
19 evidence.)

20 CHAIRMAN DEASON: Witness McPeak.

21 MR. SLOAN: Yes, Your Honor. This is Mike
22 Sloan. BellSouth has waived Mr. McPeak's appearance, and
23 we would move his direct testimony and revised rebuttal
24 testimony as well as a corrected exhibit into evidence at
25 this time.

1 CHAIRMAN DEASON: Okay. You are moving the
2 prefiled testimony into the record. Without objection?
3 Hearing no objection, show the prefiled testimony
4 admitted. There is an exhibit accompanying that prefiled
5 testimony, correct?

6 MR. SLOAN: Yes. There are eight exhibits
7 attached to the July 31st direct testimony. There is one
8 exhibit attached to the August 28th revised rebuttal
9 testimony.

10 CHAIRMAN DEASON: All of those exhibits then
11 will be identified as Composite Exhibit Number 152. And
12 without objection Exhibits 152 shall be admitted.

13 (Composite Exhibit 152 marked for identification
14 and admitted into the record.)

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1 **I. INTRODUCTION**

2

3

4 **Q. Please state your name and business address for the record.**

5 A. My name is Eric McPeak. My current business address is 111 East
6 Spring Street, El Dorado Springs, MO 64744.

7 **Q. By whom are you employed and what is your position?**

8 A. I am employed by QSI Consulting and my current position is Director of
9 Technical Services.

10 **Q. Please summarize your professional experience.**

11 A. I started my telecommunications career in 1989 as a material purchasing
12 specialist for Contel of Missouri. Contel of Missouri was an incumbent
13 local exchange carrier managing numerous exchanges throughout rural
14 portions of the West and Midwest before it was purchased by GTE North
15 incorporated. My duties at Contel included purchasing all major and
16 minor materials for approximately twenty (20) telephone exchanges in the
17 Southwest District. I also supervised the distribution of all materials for
18 company construction, contract construction, and splicing crews for the
19 District. I worked directly with Engineering and Network Provisioning on
20 all outside plant applications for both maintenance and new construction
21 projects. Beginning in May 1990, I served Contel as an outside plant
22 service technician in the customer services division. My duties included
23 installing outside construction facilities; splicing copper and fiber cable;
24 trouble shooting aerial, buried and underground cable problems; installing

1 and repairing residential and business services, both analog and digital
2 loop carrier systems, key system and PBX. I continued the same
3 responsibilities as an employee for GTE of Missouri until 1997. From
4 1997 to 1999, I held the position of President of Integrated
5 Communications Corporation (ICC). My duties included managing the
6 installation and repair of PBX and key systems applications, conducting
7 cellular and paging sales and service, and developing comprehensive
8 business planning in both engineering and competitive local service
9 engineering applications. In March of 1999 my current employer, QSI
10 Consulting, purchased ICC. I am currently employed as the Director of
11 QSI's Technical Services Division, where I provide telecommunications
12 companies with advice and counsel for direct network planning,
13 management and cost-of-service support. My specific areas of expertise
14 include network engineering, facility planning, project management,
15 business system applications, incremental cost research and issues
16 related to the provision of unbundled network elements, including local
17 loops.

18 **Q. Please summarize you educational background.**

19 A. I completed two years of course work in Electrical Engineering at
20 Southwest Missouri State University in Springfield, Missouri. In addition, I
21 completed numerous industry training courses provided by Nortel
22 Networks, Contel Telephone and GTE including training courses at the

1 Contel Training Center, St. Charles, Missouri in outside plant construction
2 practices, major and minor cable splicing (copper and fiber), installation
3 and repair of residential and business telephone service, key and PBX
4 installation, coin telephone installation and all OSHA safety practices.

5 **Q. What is the purpose of your testimony?**

6 A. This testimony will address the proper times and methods associated with
7 all activities involved in the conditioning of loops for xDSL services. I will
8 also be addressing the proposed rates submitted by BellSouth in this
9 proceeding.

10 **II. xDSL Background**
11
12

13 **Q. Please define loop conditioning and explain why loop conditioning is
14 required within the network.**

15 A. "Loop Conditioning" is the process wherein the electrical characteristics of
16 a copper pair are altered, generally by adding equipment, so that the
17 characteristics of the loop are consistent with a given service. Recently,
18 however, with the onset of xDSL services, the term "loop conditioning" has
19 been expanded to incorporate the process of removing these same pieces
20 of equipment to return a copper pair to its original, unaltered state. This
21 type of "loop conditioning" consists of the removal of load coils, repeaters
22 and bridge taps from the copper loop. In order for advanced services
23 such as xDSL to operate within the network, copper loops have to meet
24 certain specifications. Certain copper facility applications that exist in the

1 network, which I will refer to as “disturbers”, affect the copper loop in a
2 way that will not allow high bandwidth services such as xDSL to work
3 properly. Load coils, bridge taps and repeaters all fall within the
4 “disturber” category. The disturbers are actually designed to assist in the
5 operation of voice grade services within the network. Advanced services
6 such as xDSL operate at a much higher bandwidth than do voice services
7 and therefore require much different copper facility specifications.

8 **Q. What is DSL?**

9 A. DSL is a technology initially developed to increase the digital transmission
10 speeds over traditional copper-based loop facilities. ADSL, or
11 *asynchronous digital subscriber line*, is a member of a larger family of
12 technologies generally referred to as xDSL. The “x” in xDSL is generally
13 used as a placeholder to identify more specific derivations of the digital
14 subscriber line technology (i.e. HDSL –high speed DSL; SDSL –
15 synchronous DSL VDSL – very high speed DSL; UDSL- universal DSL;
16 and RDSL – rate adaptive DSL). Generally, xDSL technologies use a
17 system of digital modems placed on each end of a transmission medium
18 (generally two or four copper wires) to transmit digital information at rates
19 far exceeding those typically achieved by other types of copper loop
20 transmission.
21 xDSL technologies support a number of consumer data applications
22 including wide area networking for purposes of telecommuting as well as

1 high-speed internet access that dwarfs the speed achieved by a standard
2 56Kbps modem. In sum, advanced services drive ordinary telephone
3 lines at speeds far greater than conventional dial-up modems, and allow
4 consumers to enhance their Internet use and maximize efficiencies and
5 productivity. The efficiencies and improvements offered by advanced
6 services allow for the performance of a variety of tasks that make life
7 easier and more productive. A few examples of ways in which consumers
8 can take advantage of advanced services include the following:

- 9 (1) linking multiple personal computers to single digital subscriber line
10 connections for a fully "networked" home office;
11
12 (2) downloading software and documents from the Internet at extremely high
13 rates of speed; and
14
15 (3) conducting stock trades in real time fashion.

16 **Q. How does xDSL work?**

17 A. Generally speaking, xDSL modems are placed at each end of a non-
18 loaded copper loop to transmit a digital data stream between the
19 customer's premise and a packet switched network node that resides in
20 the local exchange carrier's central office ("C.O."). Using complex digital
21 compression techniques, ADSL supports substantial bandwidth on the
22 "downstream" channel (i.e. from the packet switched network to the
23 customer's premises) while supporting a more modest transmission
24 capacity on the "upstream" channel (i.e. from the customer's premises to
25 the C.O.). This "asynchronous" bandwidth capability separates ADSL
26 from other xDSL technologies like HDSL which provides T1 transmission

1 (1.544 Mbs) in both directions. ADSL is engineered to overlay existing
2 analog telephone service and basic rate ISDN¹ services by avoiding the
3 use of frequencies in the range of 0 to 50 kHz where POTS and ISDN
4 generally reside within the transmission medium. Stated another way, a
5 customer can realize the high-speed data capabilities of the ADSL
6 technology while at the same time continuing to use the same telephone
7 line for traditional voice services.

8 **Q. Do the characteristics of the copper pairs used as a transmission**
9 **medium for the xDSL technology impact its efficiency?**

10 A. Yes, they do. In fact, xDSL technologies (and ADSL in particular) are
11 limited in the extent to which they can utilize existing copper loops that
12 exceed a particular length (i.e. it is generally accepted that using a loop in
13 excess of 18,000 feet for xDSL transmission is likely to result in
14 substantial service degradation or even an unacceptable bit error ratio).
15 Likewise, individual characteristics beyond the simple length of the loop
16 can impact the quality (i.e. bit rate or bit error ratio) of the xDSL
17 transmission. For example, an excessive deployment of bridged tap, load
18 coils or repeaters within the loop can render a loop unusable for xDSL
19 transmission.

¹ ISDN (Integrated Software Defined Network) is another family of technologies that attempts to increase the bandwidth available over copper loop facilities. ISDN services generally use central office switching software (as opposed to packet switching equipment) to manage the digital data stream between the central office and the customer's premises.

1 **Q. How does the presence of load coils, bridged tap and/or repeaters**
2 **degrade the quality of the ADSL transmission?**

3 A. Generally speaking, these disturbers interfere with the ability of the two
4 xDSL modems to communicate effectively. This inability to communicate
5 effectively can either rob the system of potential data transmission speed
6 (by reducing the amount of data that can be transferred per second), or it
7 can degrade the transmission to an extent where the bit error ratio is
8 unacceptable (i.e. the ratio of legitimate "bits" of data received by the
9 device at either end compared to erroneous "bits" is so high that the
10 transmission is rendered unusable). I will describe how each "disturber"
11 affects the xDSL transmission in greater detail below.

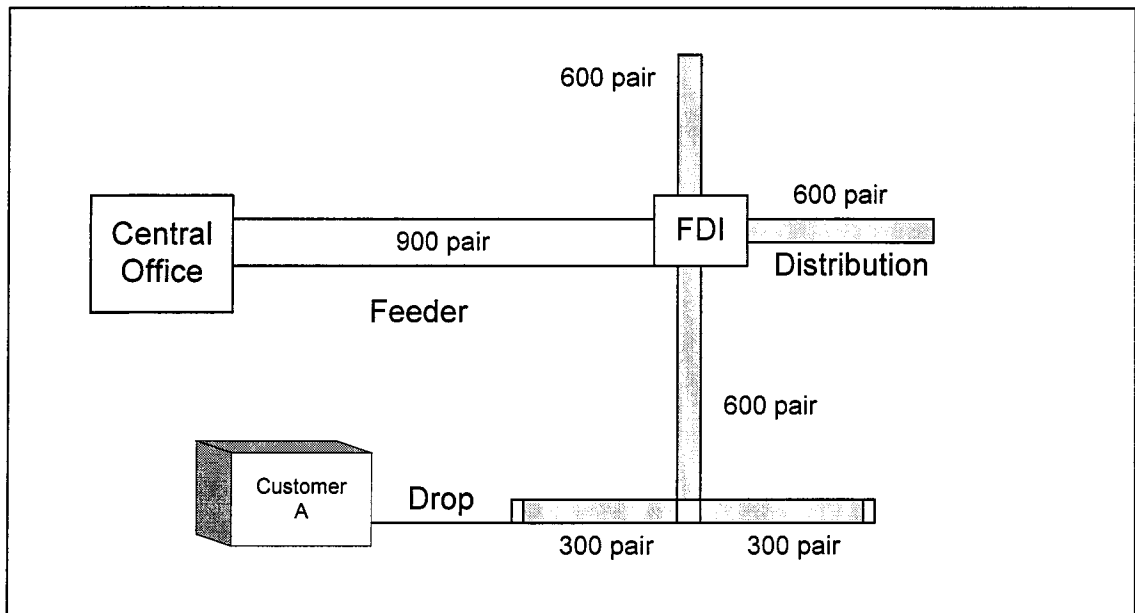
12 **Q. What is bridged tap?**

13 A. Bridged tap is the result of an outside plant deployment strategy which
14 attempts to maximize the use of a local exchange carrier's loop
15 investment. Local exchange carriers generally provision loop facilities in
16 three fairly discrete segments: (1) feeder or F1; (2) distribution or F2 and
17 (3) drop. Feeder facilities generally extend from a central location which
18 houses the exchange's central office switch. Feeder facilities are
19 generally characterized by larger cables (housing anywhere from 900 to
20 2400 copper pairs) that carry traffic to a defined point within the exchange
21 where they are cross-connected (usually via a feeder distribution interface
22 "FDI") to the distribution portion of the network. It is the distribution portion

1 of the network that then spreads out across a given defined area of the
2 exchange (generally referred to as a distribution area or "DA") to extend a
3 given loop to a particular neighborhood or group of customer premises.

4 The drop portion of the network then extends the distribution cable
5 (generally terminated at a drop pedestal or an aerial equivalent within a
6 neighborhood) to a given customer premise. Diagram 1 below provides a
7 simplified look at the these three loop components.

8 To better understand the use of bridged tap, we must look more closely at
9 the distribution portion of the network. Each distinct distribution route from
10 the FDI is generally referred to as a "tap." A given tap is used to connect
11 a number of active customers to the feeder network to complete a circuit
12 from the customers' premises to the central office. Each tap may
13 incorporate a number of different splice points wherein the distribution
14 cable is tapered to smaller cables that branch out to different
15 neighborhoods.

Diagram 1

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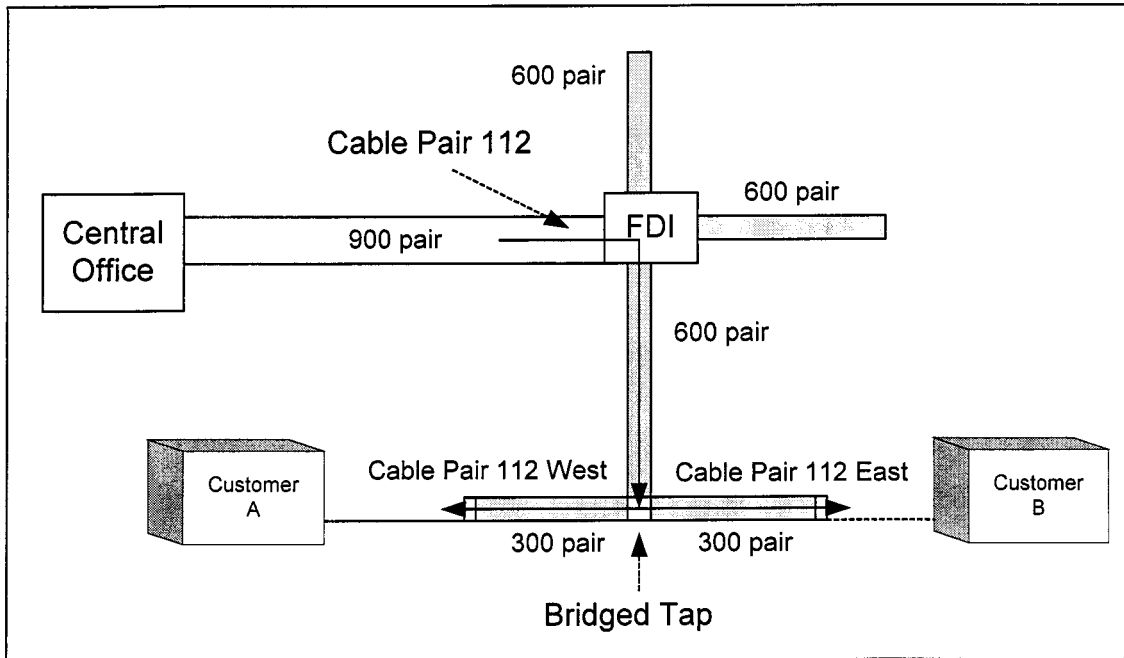
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Although distribution cables generally grow smaller as we move from the FDI to the customer premise, the network is generally engineered to accommodate a larger number of distribution cables than feeder cables. Generally, there could be several distribution cables located at the FDI that are being fed by one feeder cable. This results from engineering the network such that individual feeder pairs can be provisioned to different portions of the distribution network as needed, without the need to provision additional distribution pairs. This is accomplished by two methods: (1) the cross-connect capability of the FDI itself (i.e. the ability to cross-connect a single feeder pair with any number of distribution pairs); an, (2) bridged tap.

1 **Q. Please explain bridge tap in more detail.**

2 A. Outside plant engineers generally design the network where a single
3 distribution pair is actually connected to at least two downstream
4 distribution pairs that may branch in two different directions. In other
5 words, the tap is “bridged” such that it can provide service in either of two
6 geographic areas (generally it is “bridged” to provide either an east or west
7 circuit). This is accomplished generally within a cross-connect pedestal
8 wherein a single distribution pair is simply cross-connected to two
9 downstream pairs. Of course, a drop is attached to only one of these
10 bridged pairs to provide service to an individual customer, but the “bridge”
11 remains in place so if the customer leaves, that same distribution pair
12 could be used in another geographic area to meet future demand. This
13 “bridged tap” architecture allows the local exchange carrier to maximize
14 the flexibility of its network without the expense that would be required to
15 engineer direct circuits (i.e. a single pair reaching from the C.O. to each
16 customer premises). Diagram 2 below depicts a cable pair that “appears”
17 at two different locations using the “bridged” architecture as described
18 above.

Diagram 2



1

2 In Diagram 2 above, Cable Pair 112 is “bridged” such that it could be used
 3 to provide service to Customer A or Customer B. In this example the pair
 4 is connected to a drop that serves Customer A; however, the “bridge”
 5 allows it to be used just as easily to provide service to Customer B (though
 6 it can provide service to only one of those customers at any one time).

7 **Q. Why does bridged tap degrade the quality of an xDSL transmission?**

8 A. Simply put, bridged tap increases the electrical loop length of the circuit in
 9 question. An electrical signal traversing cable pair 112 will actually travel
 10 the entire distance of the pair extending to both customer A and
 11 customer B, thus increasing the resistance and loss associated with the

1 entire loop. This extended electrical loop length significantly reduces the
2 efficiency of the ADSL transmission.

3 **Q. What are load coils?**

4 A. Load coils can be described as inductance coils used to improve the
5 transmission performance of the voice band channel, thus increasing the
6 allowed loop length for acceptable voice transmission. Generally
7 speaking, a load coil on a loop “amplifies” a given analog signal by
8 boosting the entire voice band channel so it can be “heard” on loops
9 extending farther from the original point of analog transmission (generally
10 the central office switch).

11 **Q. Can a loaded loop effectively accommodate an xDSL signal?**

12 A. No, it cannot. xDSL technology operates in the high speed frequency
13 range of a copper loop. Load coil inductance alters the rate at which data
14 is transmitted through the loop, and creates unacceptable fluctuations in
15 bit rate speed and quality thereby degrading the overall performance of
16 the transmission. Stated differently, the load coil’s general purpose of
17 “amplifying” an analog signal is not conducive to the digital communication
18 that occurs between the two ADSL modems. By electronically amplifying
19 the digital signal, the load coil’s inductance alters the signal in a manner
20 that is not recognized by the ADSL modem at the other end of the
21 communication pathway.

1 **Q. What is a repeater and what is it used for?**

2 A. Repeaters are used in a number of different scenarios in provisioning
3 outside loop plant. Repeaters are either Voice Frequency Repeaters
4 ("VFRs") or digital repeaters. Voice Frequency Repeaters can be
5 categorized in two classes: Central Office-Mounted and Field Mounted.
6 Central Office-Mounted repeaters are required on customer loops when
7 the 1000 Hz transmission loss exceeds the 8.0 dB limit (i.e. the voice
8 grade standard). Field-Mounted VFR's are generally used for circuits with
9 resistance greater than 3000 ohms or where more than the maximum
10 available decibel gain from one terminal repeater is required. To satisfy
11 minimum return loss requirements, repeaters must be located at or near
12 the facility's electrical midpoint and centered as close as possible between
13 two load coils.

14 **Q. How does a repeater degrade the quality of an xDSL transmission?**

15 A. Repeaters placed in a typical local loop are designed to operate under
16 voice frequency standards only. Repeaters significantly distort the data
17 stream resulting in high bit-rate error ratios that would ultimately result in
18 unacceptable transmission levels for ADSL, which optimizes high band-
19 width applications using digital transmission.

1

2 **III. Multiple Loop Conditioning Practices**

3

4 **Q** Mr. McPeak, have you had the opportunity to review BellSouth's proposed
5 cost model?

6 A. Yes I have.

7 **Q. Has BellSouth over inflated its loop conditioning rates?**8 A. Yes it has. In at least three significant ways, BellSouth has used inputs in
9 its cost model that improperly lead to over-inflated loop conditioning rates.
10 First, BellSouth unjustifiably presumes that only ten (10) pairs can be
11 conditioned per conditioning activity. In addition, BellSouth has proposed
12 extremely high labor activity times for most activities associated with loop
13 conditioning. Finally, BellSouth has assumed that 90% of conditioning for
14 load coils will be done in underground plant facilities and 10% will be done
15 in aerial or buried plant facilities, which not only misrepresents BellSouth's
16 network but also appears to conflict with other portions of BellSouth's cost
17 model.18 **Q. Why is BellSouth's assumption that only 10 pair can be conditioned
19 per activity improper?**20 A. I have performed an analysis which conservatively estimates that
21 approximately 224 loops less than 17,500 feet and 75 loops greater than
22 17,500 feet are available for conditioning per each location visited by a
23 BellSouth technician.

1 **Q. Can you please explain how you arrived at those numbers and why**
2 **you believe them to be conservative?**

3 A. Yes. I will begin by discussing loops under 17,500 feet. First, I have
4 assumed that the average BellSouth cable contains 600 copper pairs.

5 **Q. Is 600 a reasonable number?**

6 A. Yes, based on my experience, 600 is a conservative estimate. Mr. Keith
7 Milner of BellSouth in his testimony describes a cable as containing 1200
8 copper pairs. See Milner testimony at 9:15-16. The number I have used
9 is half that.

10 **Q. What is the next step in your analysis.**

11 A. I then used a fill factor of 58%, which means that of the 600 loops, 58% or
12 347 currently are being used by BellSouth to provide voice service. I
13 arrived at this number by using a weighted average. First, I took
14 BellSouth's estimates for the average distribution (47%) and feeder (74%)
15 fill factors. I then accounted for the fact that, in my experience, generally
16 60% of a network is made up of distribution and 40% of feeder. Based on
17 this assumption, I came up with a weighted average of 58%. ((47% *60%)
18 + (74% * 40%) = 58%.)

19 **Q. What did you do next?**

20 A. I assumed that BellSouth would set aside a certain amount of pairs for the
21 future provision of services. To estimate the number of lines that should
22 be reserved for future voice demand, I relied on population growth data

1 from the U.S. Census Bureau, Population Division. Based on the most
2 recent data, Florida's population is growing at an annual rate of 1.4%. I
3 applied a 5.6% population growth rate (over a 4 year time horizon) and
4 assumed a 99% penetration rate for telephone subscribership in order to
5 calculate the number of lines that should be reserved to accommodate
6 new voice service demand. My understanding from my colleague Mark
7 Stacy is that most penetration rates are significantly less than 99%. The
8 5.6% growth rate utilized in the analysis would allow for 4 years of growth
9 at the most recently observed rate of 1.4% annually, a time period that is
10 sufficient to allow BellSouth to respond to both voice and data demand
11 and to plan and implement network upgrades to accommodate all
12 customer demand in the long term. Based on these numbers, 19 pairs
13 would need to be reserved for future voice applications.

14 **Q. You state, however, that 29 pairs would need to be set aside. How**
15 **do you arrive at that number?**

16 A. I have further assumed that one-half of all new customers will add a
17 second line. In other words, in order to calculate the number of lines to be
18 set aside for future voice demand over the next 4 years, 99% of new
19 residents are assumed to require new voice service, and one-half of those
20 new customers will require 2 lines. Based on these numbers, I have
21 estimated that 29 lines will need to be set aside.

22 **Q. What did you do next?**

1 A. As stated above, using a fill factor of 58%, 253 of the 600 pairs per cable
2 are spare. I then subtracted the 29 lines that BellSouth would set aside
3 for future customers to arrive at 224 loops.

4 **Q. Did you employ the same analysis to reach the conclusion that 75**
5 **loops of greater than 17,500 feet are available to be conditioned at**
6 **each location.**

7 A. Yes I did.

8 **Q. Although 224 pairs under 17,500 feet and 75 pairs over 17,500 feet**
9 **may be available for conditioning at an existing location, how many**
10 **pairs have you assumed should be conditioned at one time by**
11 **BellSouth.**

12 A. In my calculations, I have presumed only that BellSouth will condition 25
13 pairs at a time. See Exhibit EM_7.

14 **Q. Can BellSouth achieve the efficiencies associated with multiple loop**
15 **conditioning in 25 pair increments without impairing the service of**
16 **existing voice customers, or impairing the ability of BELL SOUTH to**
17 **serve future voice customers?**

18 A. Absolutely. As my analysis indicates, BellSouth can condition well over 25
19 loops without disturbing existing customer service and while still
20 maintaining reserve loops for future voice service demand.

1 Simply, it is neither impractical nor inefficient to assume that multiple pairs
2 can be conditioned at a time without impairing BellSouth or other
3 providers' ability to serve voice customers..

4 **Q. Moreover, isn't it true that you do not account for the fact that pairs**
5 **under 17,500 feet currently used to provide voice service still may be**
6 **conditioned without degrading that service?**

7 A. That is correct. In my analysis, I conservatively have assumed that 347
8 pairs per cable are "filled" and unable to be conditioned. In reality,
9 however, BellSouth could condition and provide a variety of xDSL services
10 over those loops without degrading existing voice services.

11 **Q. With 224 and 75 pairs available for conditioning, respectively, would**
12 **it be likely that BellSouth would be conditioning loops unnecessarily**
13 **if it conditioned 25 at a time?**

14 A. No. A report published by Dataquest in May of 1999 entitled "Changing
15 Traffic Patters: Data Versus Voice concludes that voice traffic is growing
16 at an annual rate of 6.9% while data traffic is growing at a 36.5% annual
17 rate. Although this data focuses on traffic rather than line demand, it
18 clearly demonstrates that the relative demand for data is greater than that
19 of voice, and implies that more lines will be needed to serve data
20 customers than voice customers in the future. BellSouth itself has
21 predicted a huge increase in demand for DSL related services in both the

1 wholesale and retail market.² Given the strong demand by both
2 BellSouth and competitive providers of advanced services, it seems much
3 more likely that the supply of conditioned loops will be exceeded by the
4 demand. Moreover, as I stated previously, conditioned loops under
5 18,000 feet still may be used to provide voice services. Realistically,
6 therefore, it seems to me that the concern of this Commission should not
7 be whether there will be a demand for xDSL capable loops, but rather
8 BellSouth's reluctance to avail itself of the efficiencies associated with
9 conditioning multiple loops in increments of 25 or larger.

10 **Q. Are there other reasons why it is reasonable to assume that multiple**
11 **loops should be conditioned in 25 pair increments?**

12 A. There are many reasons for taking advantage of the efficiencies
13 associated with conditioning multiple pairs. As I will discuss later in my
14 testimony, the time estimates proposed by BellSouth, which are utterly
15 unjustifiable on their face, also will be lowered when conditioning a
16 minimum of 25 loops for each dispatch. In addition, the tools technicians
17 use to splice connections are designed to condition multiple pairs. ILECs
18 generally use either Lucent 710 25-pair splice connectors or 3M MS² 25-
19 pair splice connectors (See Exhibit EM_8). With the advent of such tools
20 and other similar process enhancements, single pair splicing has become
21 an outdated practice in the telecommunications industry for decades.

² See http://biz.yahoo.com/bw/000605/ga_bellsou_3.html.

1

2 Still another reason for conditioning multiple pairs at a time is that multiple
3 re-entries to splice closures in order to condition loops can cause serious
4 degradation of the wire insulation and can cause failure of the wire. In
5 other words, accessing the same network components over and over
6 again has the effect of wearing them out. Common sense dictates that it
7 would be more efficient and would cause less wear and tear if access
8 occurred as infrequently as possible. Less frequent access can be
9 accomplished by conditioning multiple loops at a time.

10 Finally, as I will discuss later in my testimony, the cable containing the
11 pairs generally are divided up into twenty-five (25) pair binder groups. In
12 most cases, the twenty five pair binder groups are spliced using splicing
13 connectors that actually connect twenty-five pair at one time. This simply
14 represents another reason why I have chosen to use 25 pair as my base
15 number.

16 **Q. To conclude this issue Mr. McPeak, despite the fact that well over 25**
17 **loops can be conditioned at one time, your recalculated rates**
18 **assume that how many loops on average should be conditioned per**
19 **conditioning dispatch?**

20 A. I conservatively have assumed that BellSouth will condition 25 per
21 conditioning activity for both loops that are under 17,500 ft. and loops over
22 17,500 ft.

1

2 **IV. Time Intervals for Loop Conditioning Activities**

3

4 **Q. You stated earlier that BellSouth also has overstated the times**
 5 **involved in conditioning pairs, leading to over-inflated rates for**
 6 **conditioning. Were BellSouth's time inputs supported?**

7 **A. I found no support in BellSouth's testimony to support the time intervals it**
 8 **has proposed.**

9 **Q. Would you please provide a break down of the times that BellSouth**
 10 **has used in determining the costs for loop conditioning activities.**

11 **A. BellSouth has broken down the activity categories as follows:**

FUNTTION	JFC/PAYBAND	DESCRIPTION
Service Inquiry	SDWC	Systems Designer w/Sales Com
Service Inquiry	230x	Customer Point of Contact – ICSC/LCSC
Engineering	JG57	Job Grade 57
Engineering	WS10	Wage Scale 10
Engineering	4M1X	Network
Connect & Turn-Up and Test	420x	Outside Plant Constr (OSPC)
Connect & Turn-Up and Test	420x	Outside Plant Constr (OSPC)
Travel	420x	OSPC

12

13

1 **Q. Please provide a detailed description of the activities performed for**
2 **each conditioning function category and the amount of time**
3 **BellSouth has included in its cost study for each activity.**

4 **A. Cost Element A.17.1, A.17.2, A.17.3**

5 a. Service Inquiry – CRSC/Acct. Team receives Service Inquiry (SI)
6 from CLEC; forwards to OSPE for handling. Once OSPE responds
7 with Estimated Completion Date (ECD), follows up w/OSPE until
8 job is complete. (Time assumed in BellSouth Cost Study = 30
9 minutes.)

10 b. Service Inquiry – LCSG receives SI, validates for accuracy &
11 processes for billing. (Time assumed in BellSouth Cost Study = 60
12 minutes)

13 c. Engineering – OSPE receives an SI from CRSG, verifies load
14 coil/equipment locations in plats. (Time assumed in BellSouth Cost
15 Study = 2 hours)

16 d. Engineering – AFIG receives job from OSPE and posts records.
17 (Time assumed in BellSouth Cost Study = 3 hours)

18 e. Engineering – OSPE Codes, assigns job number and returns SI to
19 CRSG. (Time assumed in BellSouth Cost Study = 1hour)

20 f. Connect & Turn-Up Test – (Underground) OSP Construction sets
21 up manholes, opens/closes splices, deloads pairs (Time assumed
22 in BellSouth Cost Study = 4.5 hours)

1 g. Connect & Turn-Up Test- (Buried/Aerial) OSP Constructions set-up,
2 open closes splices, deload spares. (Time assumed in BellSouth
3 Cost Study = 3.5 hours)

4 h. Travel – OSP Construction travels to load coil sites. (Time
5 assumed in BellSouth Cost Study = 30 minutes)

6

7 **Q. Please provide a table comparing the BELLSOUTH activity times in**
8 **its cost study to the appropriate times you used to recalculate the**
9 **loop conditioning costs.**

10 A.

FUNCTION	JFC/PAYBAND	BellSouth Activity Time	Proper Activity Time
Service Inquiry	SDWC	30 minutes	15 minutes
Service Inquiry	230x	60 minutes	15 minutes
Engineering	JG57	2 hours	30 minutes
Engineering	WS10	3 hours	30 minutes
Engineering	4M1X	1 hour	30 minutes
Connect & Turn-Up and Test	420x	4.5 hours	1.5 hours
Connect & Turn-Up	420x	3.5 hours	42 minutes
Travel	420x	30 minutes	15 minutes

11

12 **Q. Please provide an explanation to support the reduction in the**
13 **BellSouth activity times and the method used to derive the proper**
14 **activity times.**

15

- 1 **A. Service Inquiry** – BellSouth assumes that it takes 90 minutes to process
2 and follow up on an order to establish the proper billing to the customer.
3 Generally, most all service order activity is processed in electronic format,
4 and I believe that my colleague Mark Stacy has testified to the fact that in
5 fact BellSouth is required under federal law and by this Commission to
6 provide electronic ordering and provisioning. The customer service
7 representative accesses the electronic database, enters the appropriate
8 information in electronic format and then processes the appropriate billing
9 information. Since this whole process can be done electronically, the only
10 real time assumed is the time for entering the information into the
11 computer. Therefore, I have adjusted the activity time to 30 minutes for
12 the total Service Inquiry process.
- 13 **B. Engineering** – BellSouth assumes that all engineering activities take 6
14 hours. When an Engineer receives an order from customer service (which
15 can usually be transferred electronically), he reviews the order for the
16 pertinent information. He then starts to review the outside plant records to
17 see where the inhibitors lie within the loop. Since many companies have
18 transferred outside plant records into Computer Aided Design Systems,
19 the Engineer has the ability to electronically review the records. After
20 locating the inhibitors within the loop, the engineer simply processes the
21 information electronically and sends it to Customer Service so that a
22 technician may be dispatched. Once again, since the Engineer has the

1 ability to process the majority of the information electronically, the proper
2 time for the activity is 90 minutes.

3 **C. Connect & Turn-Up and Test** – BellSouth assumes that it takes 4.5
4 hours to perform conditioning activities in underground plant facilities and
5 3.5 hours in buried or aerial plant. I have performed these activities
6 myself, however, and based on my actual experience I know that these
7 times are drastically overstated. First, BellSouth assumes that it takes 2
8 hours to set up a manhole. Manhole and worksite preparation, however,
9 can easily be done in less than 30 minutes. BellSouth then assumes that
10 it takes 1 hour to open and close a splice closure. This task can be
11 performed in less than 15 minutes. BellSouth assumes that it takes 1.5
12 hours to condition the pairs. This can easily be done in less than 15
13 minutes. As you can see, BellSouth drastically overstates the work times
14 for all of the activities. Similar overstatements appear in BellSouth's
15 proposed time for buried and aerial conditioning.

16 **D. Travel** – BellSouth assumes 30 minutes for travel time. Each technician
17 is assigned to a designated geographic work area. The areas are typically
18 arranged close to a central office or reporting location. This allows
19 dispatchers to dispatch technicians in an efficient manner, thereby
20 minimizing travel time from one work location to another. Almost all
21 technicians today are equipped with lap top computers or some type of
22 electronic hand held device that allows them to receive dispatches and

1 detailed information from remote locations about their next job. With this
2 technology available travel time is significantly decreased for the
3 technician. Loop conditioning activities almost always take place within
4 18,000 ft. from the central office. Since "inhibitors" are typically spaced
5 approximately 6,000 ft. apart, the average distance from one conditioning
6 location in the loop to the next is just a little more than one-mile, making
7 driving time very minimal for the associated activities. The appropriate
8 time for travel should be 15 minutes.

9 **Q. You stated previously that you spent a significant amount of time**
10 **working as an Outside Plant Technician for an ILEC. Are your time**
11 **revisions based on your experience in actually performing the loop**
12 **conditioning activities you have addressed**

13 A. Yes they are.

14 **Q. BellSouth includes costs for additional activity times in its cost**
15 **study. Do you agree with the application of these additional costs?**

16 A. No I do not. BellSouth states that when removing bridge taps, 20% of the
17 time it will be required to remove additional bridge taps. It is equally as
18 likely, however, that only one bridge tap would have to be removed on a
19 loop less than 18,000 feet. I have assumed that on average three bridge
20 taps will have to be removed per loop. This accounts for the fact more or
21 less than three bridge taps could have to be removed from a given loop.
22 Simply, BellSouth should not be entitled to assess additional charges

1 based on invalid assumptions that "additional" bridge taps hypothetically
2 may need to be removed.

3 **V. CONDITIONING ACTIVITY BASED ON TYPE OF PLANT**

4 Q, You stated previously that BellSouth's cost model is based on the
5 presumption that 90% of conditioning for load coils will be done in
6 underground plant facilities and 10% will be done in aerial or buried plant
7 facilities. Do you agree with that assumption?

8 A. No I do not. If 90% of all conditioning takes place in underground plant
9 facilities, this assumes that most loops are contained in underground
10 facilities nearly 18,000 ft. from the Wire Center. This is a drastic
11 overstatement of the presence of underground facilities within the network.
12 Typically as a cable extends from the Wire Center it transitions from
13 Underground Plant to Aerial Plant and then to Buried Plant.

14 **Q. In fact, BellSouth's own cost model seems to contradict its**
15 **assumption that 90% of conditioning occurs in Underground**
16 **facilities, does it not?**

17 A. Yes. While BellSouth assumes for the purpose of load coil removal that
18 90% of such conditioning will occur in underground facilities, BellSouth
19 inexplicably assumes that bridge tap removal will occur equally in
20 underground, aerial and buried facilities.

1 **Q. Is there any explanation for BellSouth's contention that somehow the**
2 **network architecture is different when removing load coils versus**
3 **removing bridge taps.**

4 A. No there is not. The same assumption that conditioning occurs equally in
5 each of the types of facilities should be applied not just for bridge tap
6 removal, but also for the removal of load coils and repeaters alike.

7 **Q. Please Define Underground Plant and the process required to**
8 **remove Load Coils, Repeater and Bridge Taps from Underground**
9 **Plant.**

10 A. Underground plant consists of cable that is installed in underground
11 conduit which passes through a manhole system. There are several steps
12 necessary to de-load or remove a load coil from a manhole where the
13 splice closure exists in the underground network.

14 1) Travel Time - The splicing technician must first travel to the site where
15 the work is to be performed. Each technician is assigned to a
16 designated geographic work area. The areas are typically arranged
17 close to a central office or reporting location. This allows dispatchers
18 to dispatch technicians in a efficient manner minimizing travel time
19 from one work location to another. Almost all technicians today are
20 equipped with lap top computers or some type of electronic hand held
21 device that allows them to receive dispatches and detailed information
22 from remote locations about their next job. With this technology,

1 available travel time is significantly decreased for the technician. Since
2 “disturbers” are typically spaced approximately 6,000 feet apart, the
3 average distance from one conditioning location in the loop to the next
4 is a little more than one mile, making driving time very minimal for the
5 associated activities.

6 2) Prepare work site with safety equipment – Some manholes are located
7 in the middle of roadways or streets. In order to comply with safety
8 regulations, the technician must properly prepare the work location
9 with traffic signs and cones.

10 3) Open and prepare manhole – The technician must remove the lid from
11 the manhole and pump any water from the manhole. He must also test
12 the manhole for oxygen levels and purge the manhole with fresh air to
13 ensure safe working conditions. Pumping water from the manhole and
14 purging the manhole with air can be performed simultaneously.

15 4) Enter manhole, locate and open splice case – Cables in manholes are
16 racked horizontally along the walls of the manhole. Typically, cables
17 are racked on two (2) of the four (4) walls of the manhole. Depending
18 on the size of the manhole, there are one (1) to four (4) cables racked
19 in the manhole per cable entry side (see Manhole Diagram, below).
20 The splice closures are typically marked with a combination of
21 numbers and letters that identify the cable contained within the closure.
22 Splice closures are typically large stainless steel cylinders sealed with

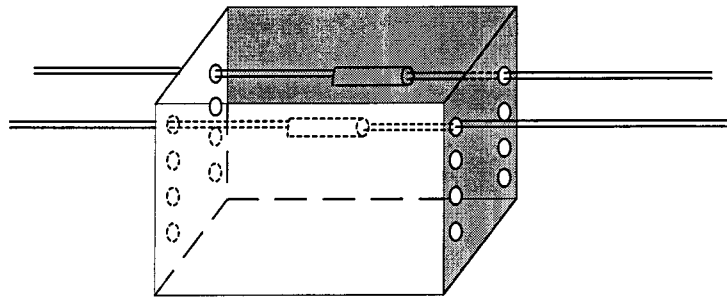
1 bolts at the top and bottom of the closure. Most closures will have six
2 (6) to eight (8) bolts that will need to be removed. Technicians carry
3 ratcheting tools that can remove the bolts easily and quickly.

4

5

6

Manhole Diagram

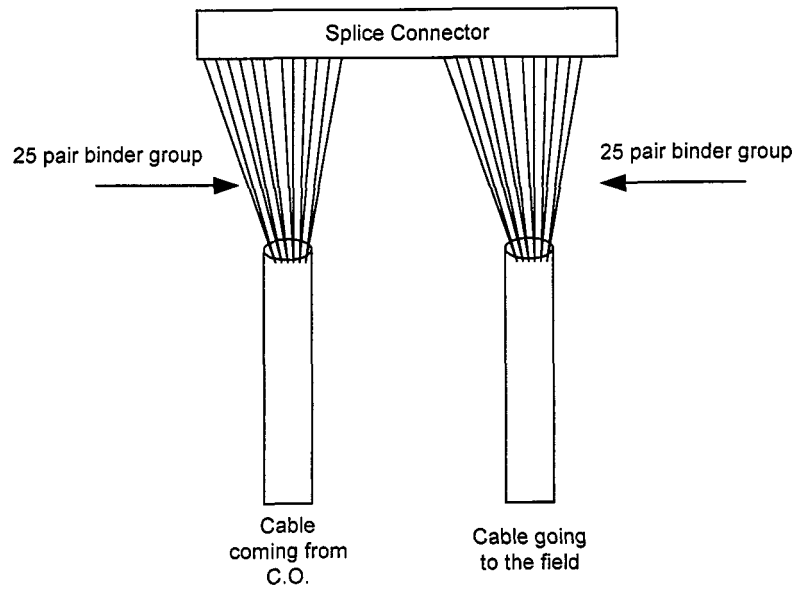


7

8

9 (5) Cut cable pair from “disturber” stub and re-splice pair – Cables are
10 divided up into twenty-five (25) pair binder groups. Within the binder
11 groups, the individual pairs are color coded for identification purposes.
12 This enables the technician to easily locate the pair or binder group to
13 be conditioned. In most cases, the twenty-five pair binder groups are
14 spliced using splicing connectors that actually connect twenty-five pair
15 at one time. An example of this type of splice is the MS² splice
16 connector, as shown in Diagrams 1 and 2, below. Also see
17 Exhibit_EM_8.

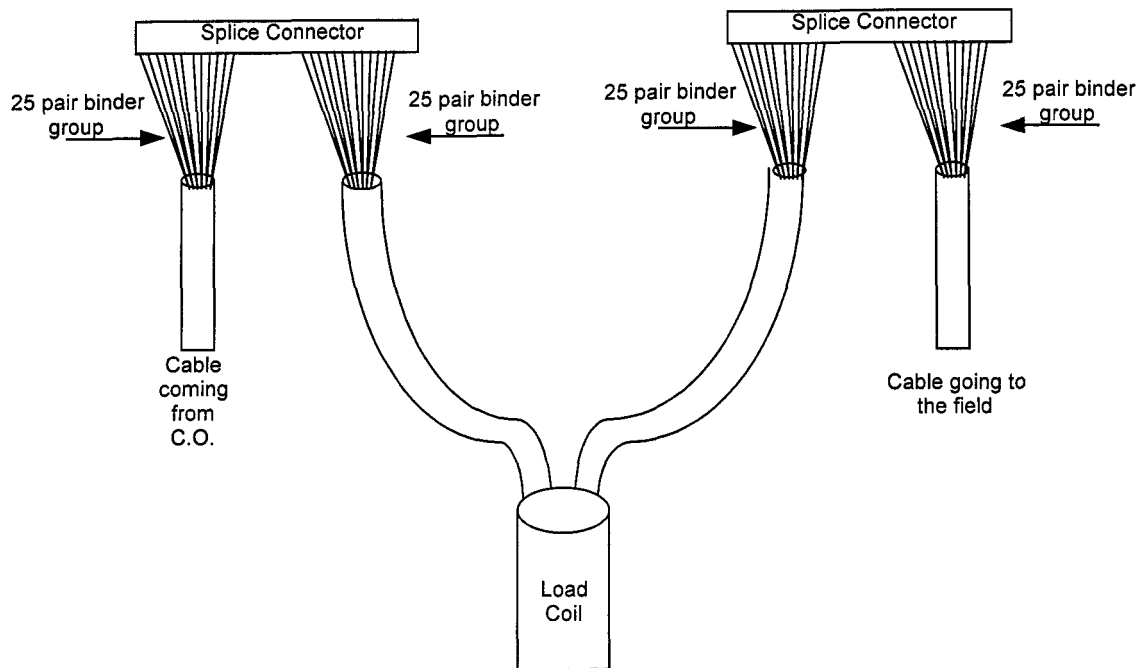
Splicing Example 1 - Straight Splice



1

2

Splicing Example 2 - Load Coil



3

1 To remove the “disturber” pair from the splice connector, you simply
2 pull the pair from the splicing connector. You can pull one pair at a
3 time or several pairs at once if you wish. You then need to reconnect
4 the feeder side of the pair to the field side of the pair to complete
5 connectivity through the splice. Once again, this can be performed
6 one pair at a time or all twenty-five at once if so desired. After the
7 splicing activities have been performed, the technician then closes and
8 seals the splice closure by installing the closure sealing bolts.

9 5) Remove splicing and safety equipment and load on truck – This
10 consists of removing the traffic safety equipment, test equipment and
11 purging equipment and placing it back on the truck.

12 **Q. Please Define Aerial Plant and Discuss the Process required to**
13 **remove Load Coils, Bridge Taps and Repeaters from Aerial Plant.**

14 A. Aerial plant is cable that is installed and attached to poles which support
15 the cable in the air. The closures used to house splices vary in size and
16 architecture. Some aerial splice closures are stainless steel and have the
17 same architecture as those used in underground plant. These are typically
18 used on very large cables where multiple splice connectors will need to be
19 housed. There are also polyurethane splice closures which are much
20 easier to access and make up the majority of closures used in aerial plant.
21 Many of the steps to condition aerial plant are very similar to those used to
22 condition underground plant.

-
- 1 1) Travel Time – This is the identical activity as described in the
2 underground explanation located in this testimony.
- 3 2) Prepare work site with safety equipment – The conditioning of aerial
4 cable will most likely involve the technician working out of a bucket
5 truck. The technician will have to put cones around the truck to
6 mark the work area and will need to place traffic safety signs in the
7 proper locations. Cable routes typically follow roads and utility right-
8 of-way corridors. Utility right-of-way corridors most often are located
9 in areas where there is no public access or traffic flow. When
10 conditioning is done in these locations, there is no need for the
11 placement of traffic signs.
- 12 3) Approach aerial terminal and open terminal - At this point, the
13 technician will enter the bucket and approach the aerial terminal.
14 He will open the terminal and either remove a few bolts from a
15 stainless steel type closure or slip some simple fastening clips from
16 the poly style closure.
- 17 4) Locate and remove pair from “disturber” – As mentioned previously,
18 the pairs will be color coded for easy identification. The technician
19 simply locates the pair to be conditioned and removes the pair from
20 the “disturber” (load coil, bridge tap, repeater). This is accomplished
21 by the same method as describe previously. Additional pairs can be

1 conditioned simultaneously very quickly and easily as described
2 previously in this testimony

3 5) Store pairs, close splice closure, and descend pole – This consists
4 of arranging the splice connectors back in the splice case and
5 closing the case. After the technician has closed the splice closure
6 he will descend the pole

7 6) Store tools and remove safety cones and traffic equipment.

8 **Q. Please Define Buried Plant and Discuss the Methods of Conditioning**
9 **Pairs in Buried Plant.**

10 A. Buried plant consists of cable that is directly buried in the ground. It is not
11 housed in a protective conduit like underground plant. The types of splice
12 closures used for buried plant are normally metal boxes that stick out of
13 the ground. To enter the splice closure you simply loosen one or possibly
14 two bolts and remove the lid. Some larger splice closures actually have
15 doors that conveniently swing open. The conditioning times and activities
16 for buried plant are very similar to aerial plant. The only basic difference is
17 that the technician has slightly less time involved in approaching the splice
18 closure since it is located on the ground. In most instances it also takes a
19 little less time to open the splice closure due because there is only one or
20 possibly two bolts to loosen to enter the closure.

1 **Q. Based on your descriptions above, is it your testimony that**
2 **conditioning becomes less expensive as the network moves from**
3 **underground to aerial to buried facilities?**

4 A. Yes it is.

5 **Q. What effect then, does overstating the percentage of conditioning**
6 **activity that occurs in underground facilities have on BellSouth's**
7 **proposed costs?**

8 A. BellSouth's assumption with regard to load coils that 90% of conditioning
9 activities occur in underground facilities simply over-inflates its costs.

10 **Q. Please describe in detail the method you used to recalculate the**
11 **proper rates based on the correct activity times.**

12 A. I actually used the Excel Workbooks included with BellSouth's TELRIC
13 costs calculator to produce the inputs into BellSouth's TELRIC Cost
14 Calculator Version 2.3. I then ran BellSouth's TELRIC Cost Calculator to
15 produce new Economic Costs.

16 **Q. Please Summarize your thoughts on BellSouth's conditioning**
17 **practices from a viewpoint of costing and efficiency.**

18 A. As indicated in my testimony, the conditioning practices described by
19 BELL SOUTH are not based on actual field work experience. BellSouth's
20 assumption that only 10 loops should be conditioned per activity where
21 hundreds of additional loops are available for conditioning simply
22 promotes inefficiency and raises costs to competitors. Moreover,

1 BellSouth's proposed cost model significantly overestimates the work
 2 times necessary for most of the conditioning tasks. I have conducted
 3 these tasks personally on many occasions and can testify unreservedly
 4 that not only has BellSouth significantly overstated the times involved to
 5 complete certain activities, but also has assigned times to activities that
 6 simply may not need to be performed.

7
 8 **VI. Recommended Rates**
 9

10 **Q. What rates do you recommend the Commission approve for**
 11 **BELLSOUTH for loop conditioning in this proceeding?**

12 **A.**

Cost Element	Description	Non-Recurring Cost	Reference
A.17.1	Unbundled Loop Modification Load Coil/Equip. Removal Short	\$9.76	Exhibit EM_1
A.17.2	Unbundled Loop Mod. Load Coil Removal - Long	\$31.92	Exhibit EM_2
A.17.3	Unbundled Loop Mod. Bridge Tap Removal	\$7.811	Exhibit EM_3
A.17.4	Unbundled Loop Mod. Additive	\$16.71	Exhibit EM_4

13
 14 **Q. Recently, the United States Court of Appeals for the Eighth Circuit**
 15 **vacated and remanded the FCC Rule 51.505(b)(1) regarding efficient**
 16 **network configuration. Does the decision of the Eighth Circuit affect**
 17 **your analysis and the rates you have proposed?**

1 A. No it does not. While I am not a lawyer, my understanding is that the
2 Eighth Circuit found that forward looking, incremental costs are still proper,
3 but should be based upon the costs incurred by an ILEC in providing
4 access to its existing network, not a hypothetical, technologically superior
5 network. In vacating the FCC Rule 51.505(b)(1), however, it is highly
6 unlikely that the Eighth Circuit intended to remove any efficiency
7 requirement placed on ILECs. Rather, while arguably now ILECs may
8 recover those costs associated with providing access to their existing
9 networks, they still are required to provide competitive providers with
10 access to those networks in an efficient manner.

11 **Q. In the context of loop conditioning, what results could occur if**
12 **BellSouth was no longer required to provide conditioned loops in an**
13 **efficient manner.**

14 A. Simply, BellSouth would have the ability to stifle competition in Florida. As
15 I have described above, BellSouth already is overstating much of its time
16 estimates, leading to over-inflated rates that I understand are cost
17 prohibitive for those companies for whom I am testifying. Without an
18 efficiency requirement, BellSouth could opt to fly its engineers to China
19 prior to conditioning a loop, and pass through those charges to
20 competitive providers. Clearly, this is not what the Eighth Circuit intended.

21 **Q. Does this conclude your testimony?**

22 A. Yes it does.

1 **I. Witness Introduction and Purpose of Testimony**
2

3 **Q. Please state your name and business address for the record.**

4 A. My name is Eric McPeak. My business address is as follows: QSI Consulting,
5 111 East Spring St, El Dorado Springs, MO 64744.
6

7 **Q. Are you the same Eric McPeak who filed testimony previously in this**
8 **docket?**

9 A. Yes, I am.
10

11 **Q. What is the purpose of your testimony in this proceeding?**

12 A. The purpose of my testimony in this proceeding is to address revisions BellSouth
13 has made to its cost model, which includes Excel input files that are used for
14 inputs into the BellSouth TELRIC Calculator Version 2.4 filed in this docket.
15

16 **Q. Did you use the BellSouth TELRIC Calculator to calculate the rates that are**
17 **included in your initial Direct Testimony filed in this proceeding.**

18 A. Yes I did.
19

20 **Q. Did BellSouth's revisions have an impact on the rates you initially**
21 **recommended in this proceeding?**

22 A. Yes, Due to the fact that BellSouth has made revisions to the Gross Receipts
23 Tax Factor included in the BellSouth TELRIC Calculator, this ultimately has an
24 effect on all of the rates calculated in this proceeding.
25

1 **Q. Are there other changes that BellSouth has made to their cost models that**
2 **change the rates that you have proposed in this proceeding?**

3 A. No. BellSouth has made additional changes in the cost models that I do not use
4 in my analysis to calculate rates.

5
6 **Q. BellSouth has added additional rate elements for Loop Modification for Sub**
7 **Loop applications (Elements A.17.5 and A.17.6). Will you be addressing**
8 **these newly filed rate elements?**

9 A. No I will not. My original method of calculating Loop Modification Costs can also
10 be applied to Loop Modifications that would take place in Sub Loop applications.

11
12 **II. Loop Modification Recommended Rates**

13
14 **Q. Please provide a table including the Revised Recommend Rates that you**
15 **propose for Loop Modification in this proceeding.**

16 A.

Cost Element	Description	Non-Recurring Cost	Reference
A.17.1	Unbundled Loop Modification Load Coil/Equip. Removal Short	\$ 9.68	Exhibit EM_1
A.17.2	Unbundled Loop Mod. Load Coil Removal - Long	\$ 31.67	Exhibit EM_2
A.17.3	Unbundled Loop Mod. Bridge Tap Removal	\$ 7.75	Exhibit EM_3
A.17.4	Unbundled Loop Mod. Additive	\$ 16.57	Exhibit EM_4

17
18
19
20

1 **Q. Does this conclude your testimony?**

2 **A. Yes, it does.**

3

4

5

1 CHAIRMAN DEASON: Now, do we have
2 cross-examination in the form of a deposition for this
3 witness?

4 MR. EDENFIELD: We do. And at this time
5 BellSouth would move into the record the cross-examination
6 via deposition of Mr. McPeak. And there were no exhibits.

7 CHAIRMAN DEASON: Mr. Fons is handing that to us
8 at this moment.

9 MR. SLOAN: And we have waived reading and
10 signing of that deposition.

11 CHAIRMAN DEASON: Very well. Then the
12 deposition of Witness McPeak that was taken on October
13 18th shall be inserted into the record as though read.
14 And there is no accompanying exhibit?

15 MR. EDENFIELD: That's correct. And that will
16 conclude BellSouth's cross-examination of Mr. McPeak.

17 CHAIRMAN DEASON: Very good.
18
19
20
21
22
23
24
25

BEFORE THE FLORIDA
PUBLIC SERVICE COMMISSION

IN RE: INVESTIGATION INTO PRICING OF
UNBUNDLED NETWORK ELEMENTS

DOCUMENT NO. 990649-TP

CROSS-EXAMINATION OF

ERIC McPEAK

October 18, 2000

9:10 a.m.

675 West Peachtree Street,
Atlanta, Georgia

Sharon A. Gabrielli, CCR-B-2002

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October 18, 2000

MR. EDENFIELD: Before we start the deposition, why don't we take some appearances so the court reporter can get everybody's name. So anybody that is on the phone that wants to be recognized?

MS. CALDWELL: This is Diana Caldwell, D-I-A-N-A, C-A-L-D-W-E-L-L.

MR. KNIGHT: Wayne Knight.

MS. CALDWELL: And we are with the Florida Public Service Commission. Do you need our address?

MR. EDENFIELD: No, that's all right.

MR. FONS: This is John Fons. It's John P. Fons, F-O-N-S, with the Ausley, A U S L E Y, and McMullen law firm. That's M-c-M-U-L-L-E-N. Post Office Box 391, Tallahassee, Florida, 32302 appearing on behalf of Sprint.

MR. MARCUS: This is Jeremy Marcus, M-A-R-C-U-S, with Blumfeld and Cohen, B-L-U-M-F-E-L-D. The address is Suite 300, 1625 Massachusetts Avenue, Northwest, Washington, D.C.,

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1 20036. And I'm appearing on behalf of Rhythms
2 Links, Inc. And if you're going to be sending
3 out electronic versions of transcripts, my E-mail
4 address is jeremy@technologylaw.com.

5 MR. EDENFIELD: Anyone else on the
6 phone? Speak now or forever hold your piece,
7 as they say.

8 Before we get started, just let me
9 note for the record that this is -- although
10 it's being taken in deposition format, this is
11 not technically a deposition. This is the
12 cross-examination of Messrs. McPeak and Stacy,
13 and we are doing that is an accommodation so as
14 to avoid having everybody to go back to
15 Tallahassee on Friday. So I would just ask
16 everybody to be mindful and conduct themselves
17 as if this is cross-examination and not a
18 deposition.

19 One more thing. I believe that
20 Broadslate and the Coalition Group has agreed to
21 take responsibility for getting this put into
22 the record, just as the other folks did with
23 Mr. Riolo. I do not anticipate that there are
24 going to be any cross-examination exhibits, at
25 least at this time, so that should make things

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1 a little more simple for getting the
2 cross-examination put into the record.

3 And with that, we can swear in Mr.
4 McPeak.

5 **ERIC McPEAK**, having been first duly sworn, was
6 deposed and testified as follows:

7 **CROSS-EXAMINATION**

8 **BY-MR. EDENFIELD**

9 Q. Mr. McPeak, you had filed some
10 direct testimony in this proceeding?

11 A. Yes, I have.

12 Q. Or at least you will be, come
13 Friday. I'm going to ask you a few questions
14 about that. Let's talk about your background
15 for a moment. As I understand it, in 1989 you
16 were employed by a company called Contel of
17 Missouri?

18 A. Yes, that's right.

19 Q. What is Contel?

20 A. Contel was an incumbent local
21 exchange carrier that provided telephone service
22 throughout several states in the United States.

23 Q. They later became part of GTE?

24 A. Yes, they were acquired by GTE, I
25 believe, in late '90 -- I mean, late 90, 1990.



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1 Q. What area, as far as geography, did
2 you work in Missouri?

3 A. Southwest district.

4 Q. What exactly -- is there a major
5 city associated with that? Would that be
6 considered more rural?

7 A. It is fairly rural. We did have a
8 city that was fairly large, which is Branson.

9 Q. What's the population of Branson?

10 A. I am not for sure.

11 Q. Is it less than a million?

12 A. Yes.

13 Q. Less than a hundred thousand?

14 A. Yes, it is.

15 Q. And as I understand it, you were an
16 outside plant service tech for Contel from 1990
17 through 1997?

18 A. For GTE through '97, yes.

19 Q. Since 1997, have you worked for an
20 incumbent or an ALEC or an ILEC as far as
21 doing outside service technician services for
22 them?

23 A. As an employee?

24 Q. Yes.

25 A. No, I have not.

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1 Q. Since 1997, you've been basically
2 employed as a consultant?

3 A. That's true.

4 Q. Would it be fair to say the last
5 time you actually performed a load coil removal
6 on what I consider to be live or active plant
7 would have be 1997 or before?

8 A. Yes, that's true.

9 Q. Do you remember when the last time
10 you actually performed a load coil removal?

11 A. The actual date --

12 Q. The date. Well, year, not
13 necessarily the date.

14 A. I would have performed that in 1997.

15 Q. Now, you're currently employed at QSI
16 Consulting?

17 A. Yes, that's true.

18 Q. And that's the same company that Mr.
19 Stacy is employed?

20 A. Yes, sir.

21 Q. Did you know Mr. Stacy before this
22 proceeding?

23 A. I've known Mr. Stacy since he went
24 to work for QSI, which has been for over a
25 year, I'm sure.

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1 Q. And y'all are in different offices,
2 though. You're in Missouri, and he is in
3 Wyoming, I believe?

4 A. That's true.

5 Q. Now, as I understand your testimony
6 in discussing your educational background, you've
7 completed some courses towards an electrical
8 engineering degree?

9 A. Yes, sir.

10 Q. Have you completed that degree as we
11 sit here today?

12 A. No. I went through two years of
13 the electrical engineering school.

14 Q. What is the highest degree that you
15 have at the moment?

16 A. The highest degree that I have would
17 be high school.

18 Q. As I understand the purpose of your
19 testimony, you are here to discuss the proper
20 times and methods associated with loop
21 conditioning for XDSL services, and you're here
22 to address BellSouth's proposed rates?

23 A. Yes, sir.

24 Q. Is there any other item that you're
25 going to be discussing from a general topic in

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1 your testimony?

2 A. No, there's not.

3 Q. Okay. In rendering your opinions in
4 your testimony, have you conducted any time and
5 motion studies on BellSouth employees or
6 BellSouth practices and procedures?

7 A. No, I have not.

8 Q. Have you ever held a position with
9 BellSouth?

10 A. No, sir.

11 Q. Have you ever worked on BellSouth's
12 network?

13 A. No, I have not.

14 Q. Would it be fair to say that your
15 opinions as to loop conditioning come from your
16 experience with Contel/GTE in Missouri?

17 A Yes, that would be true, with the
18 exception that I will add that loop conditioning
19 is the same practices wherever you're at. I
20 mean, unloading a loop is the same in North
21 Carolina or Florida or Atlanta, Georgia, as it
22 would be in Missouri.

23 Q. So it's your opinion that the
24 network throughout the country is the same as
25 far as what's required to unload a load coil?

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1 A. Yes, I think it's very similar. I
 2 think that the networks are all built under
 3 Bellcor ANSI guidelines and also AT&T guidelines.
 4 So I feel that it would be very similar
 5 activities.

6 Q. Will you agree with me that the
 7 makeup of the network may vary depending on
 8 whether you're in a rural area as opposed to a
 9 metropolitan area?

10 A. Could you define makeup a little bit
 11 more clearly?

12 Q. Yes. The percentages of what you're
 13 going to have that may be underground as
 14 opposed to aerial percentages, what may be pulp
 15 cable or PIC cable, that those may vary
 16 depending upon on whether you're in a
 17 metropolitan area or rural?

18 A. I think that the application of
 19 underground aerial and buried plant can vary
 20 depending upon geographic location. I don't
 21 think that it varies from state to state as far
 22 as how plant is allocated within each state.

23 Q. And although you're rendering some
 24 opinions on BellSouth's rates that we've
 25 proposed, I assume you're not holding yourself



1 out to be a costing expert?

2 A. I am not.

3 Q. Thank goodness. Will you agree with
4 me that there are a variety of digital
5 subscriber line technologies?

6 A. Yes, there is a variety.

7 Q. And just briefly, tell me what those
8 are.

9 A. Well, the XDSL category contains
10 several different varieties of DSL-type
11 transmission facilities. You could be looking
12 at IDSL, you could be looking at VHDSL, ADSL.
13 Those are various types of XDSL.

14 Q. Are there any technical specification
15 differences among the different types of XDSL
16 services -- or technologies, I should say?

17 A. Technical guidelines for each one of
18 those types of services can vary because those
19 services are distant-sensitive services.

20 Q. Is there anything unique about ADSL
21 services that differentiate them from the other
22 DSL technologies?

23 A. DSL has the capability of voice and
24 data in the same cable pair. The downstream
25 band width is a high band width. The upstream

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1 is lower band width. Whereas some of the other
2 XDSL could very easily accommodate high band
3 width up and downstream. So, yes, there is
4 some technical differences.

5 Q. Will you agree with me that the
6 characteristics of a copper facility such as a
7 copper loop can impact the efficiency of the
8 various XDSL technologies?

9 A. I think that the characteristics of
10 the loop as far as resistance, length, variances
11 like that, attenuation, can affect how XDSL
12 services work.

13 Q. And can the characteristics of even
14 an unbundled loop affect the quality of an XDSL
15 transmission?

16 A. Yes. If the pair has any type of
17 added resistance on it, so on and so forth,
18 yes, it could affect the operation of the
19 service.

20 Q. And some of those impediments to
21 service can be bridged tap or load coils?

22 A. That is true.

23 Q. And I assume that you do not take
24 issue with the fact that there are some
25 instances where BellSouth will have to actually

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1 remove a load coil or bridged tap in order to
2 make an XDSL technology function properly?

3 A. If there is a copper loop that is
4 going to be used for XDSL, if there is an
5 excessive bridged tap or load coils on the
6 loop, they will need to be removed, yes.

7 Q. There's been a lot of discussion
8 about bridged tap in this proceeding. Will you
9 agree with me that bridged tap is -- I'm trying
10 to get the phraseology here correct -- that
11 bridged tap is something that actually can add
12 to the efficiency of a network?

13 A. I don't know if I would agree that
14 it adds to the efficiency of the network.
15 Bridged tap is designed to enhance the network
16 to accommodate growth where feeder facilities
17 don't exist for every distribution pair.

18 Telephone companies typically install
19 bridged tap to try to minimize the investment
20 that they would have to put in their copper
21 facility on a forward-looking basis. Bridged
22 tap is not an efficient type of architecture
23 for outside plant.

24 Q. How about flexibility? Would you
25 agree with me that bridged tap allows the



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1 network to become more flexible as far as
2 serving different areas from a geography
3 standpoint?

4 A. I think it does add flexibility if
5 you have limited copper facilities, due to the
6 fact that you can take one feeder paper and use
7 it at multiple locations when needed. But it
8 also does have detrimental effects to the
9 network as if a wire that was bridged tap
10 actually had a service interruption on past the
11 customer in the bridged tap, it could very
12 easily knock the customer out of service.

13 Q. And I guess the same would be true,
14 you will agree that there are some instances --
15 and I guess basically for loops over, I think
16 you say, 17.5, I think we commonly refer to as
17 18 kilofeet -- that load coils are actually
18 necessary for voice grade transmission for those
19 loops at that length?

20 A. If it's an all-copper facility, yes.

21 Q. Will you agree with me that
22 BellSouth should be compensated -- we can, you
23 know, disagree over how much, but will you
24 agree with me that BellSouth, as a premise,
25 should be compensated for load coil removal and

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1 bridged tap removal if that's being requested by
2 an ALEC to provision XDSL service?

3 A. First of all, no, I wouldn't say
4 that I totally agree that they should be
5 compensated for, number one, loops that have
6 inhibitors on them, especially less than 18,000
7 feet, the inhibitors are not necessary to make
8 voice grade services work. In other words, you
9 don't need a load coil on a loop less than
10 18,000 feet to allow that voice service to
11 work. So to charge the ALEC to remove that I
12 don't think is proper.

13 Q. Well, let me ask you this. Let's
14 drop back in time.

15 A. Okay.

16 Q. Will you agree with me that before
17 digital loop carrier technology, that it was
18 common practice to load up all the loops, all
19 copper loop facilities in BellSouth's network for
20 voice grade transmission, that that's what was
21 going on?

22 A. I would not agree that all loops
23 were loaded, no.

24 Q. That it was common practice, not all
25 of them. Obviously, there is some that were

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1 not.

2 A. I think it is a common practice to
3 load facilities that were going to be used to
4 accommodate customers for voice service over
5 18,000 feet.

6 Q. Do you know whether BellSouth was
7 loading copper facilities under 18 kilofeet?
8 And I'm talking back in the '50s, '60s, '70s.

9 A. I think that they have stated in
10 this proceeding that they have. Other than
11 that, no, I don't know that they did. They
12 have said in this proceeding that they have
13 loaded plant less than 18,000 feet. Whether or
14 not that was necessary, I don't believe it's
15 necessary, to provide service less than 18,000
16 feet, you don't need load coils.

17 Q. So back in the '50s, '60s, '70s,
18 when a lot of this was going on, it is your
19 opinion that BellSouth should not have been
20 loading copper facilities under 18 kilofeet?

21 A. Yeah, that's my opinion.

22 Q. Okay. What is the basis for that
23 opinion?

24 A. As I stated earlier, for voice
25 services less than 18,000 feet, it's not

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1 necessary to have load coils to make those
2 services operate.

3 Q. Will you agree with me that even on
4 loops under 18 kilofeet, that load coils will
5 improve voice grade transmission?

6 A. It depends upon where the customer
7 is located within the loading scheme. There
8 are many times where load coils and loops less
9 than 18,000 feet have to be built out with a
10 build-out capacitor to allow for the voice
11 service to operate in that corridor. So I
12 think that load coils for voice service for
13 loops less than 18,000 feet are more of an
14 inhibitor. They inhibit voice service more than
15 they enhance.

16 Q. And you say that would be true back
17 in the '50s, '60s, '70s?

18 A. Yes, the copper characteristics and
19 electrical characteristics of a copper facility
20 are not any different in the 1950s than they
21 are in the 1990s or year 2000.

22 Q. Have you proposed a rate for removal
23 of load coils on loops under 18 kilofeet?

24 A. Yes, I have.

25 Q. Can I make an assumption from your

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1 having proposed a rate for that that you think
2 it's appropriate for BellSouth to charge for a
3 load coil removal for copper loops under 18
4 kilofeet?

5 A. No. I don't think that you can
6 make that assumption that I think that it's
7 appropriate. I proposed a rate for load coil
8 removal for loops less than 18 kilofeet for the
9 situation that if the Commission decides that
10 it's proper, which I strongly recommend to the
11 Commission that it's not proper to charge for
12 loop modification less than 18 kilofeet, that if
13 they did decide to, they would have an
14 appropriate rate that they could look at.

15 Q. In developing your cost or the rate
16 you're proposing for the removal of load coils
17 for copper facilities under 18 kilofeet, how
18 many load coil removals did you assume were
19 going to take place?

20 A. I assumed the exact amount of load
21 coils that BellSouth assumed in their study. I
22 didn't change it. I believe it was 3.5; is
23 that correct?

24 Q I think it was 2.1 for under. But
25 then for over, it was 3.5?

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1 A. Under 18 kilofeet, 2.1. 3.5 for
2 over correct.

3 Q. Would you agree with me that under
4 engineering guidelines, the first two load coils
5 that you will find on a loop will be under or
6 over 18 kilofeet; the first one will be at
7 3,000 feet, and the second one will be at 9,000
8 feet?

9 A. I agree, yes.

10 Q. And that is from the central office?

11 A. Yes.

12 Q. Will you agree with me that 90
13 percent -- let me back up for a second. In
14 conditioning a copper facility -- in other
15 words, you're doing the load coil removal --
16 that 90 percent of the time that is going to
17 happen in an underground environment and 10
18 percent of the time that's that's going to
19 happen in either an aerial or buried
20 environment?

21 A. I disagree with that.

22 Q. So you disagree with Mr. Riolo on
23 that point as well, BellSouth and Mr. Riolo?

24 A. I don't think Mr. Riolo promotes 90
25 percent underground and 10 percent --

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1 Q. Well, let's take a look at page --
2 give me one second. I don't know if you
3 brought Mr. Riolo's testimony with you, but take
4 a look at page 91 of his testimony beginning on
5 line 20. I've got a sentence underlined there.
6 I'm sorry. I didn't bring an extra copy.
7 Take a look at that.

8 A. Yes.

9 MR. SLOAN: Why don't you begin with
10 the question and read the entire answer, okay?

11 Q. (By Mr. Edenfield) I want you to
12 read everything in context. I don't want to
13 take anything out of context, but that's the
14 sentence I'm going to ask you about.

15 A. The question as stated in the
16 testimony is: "If the Commission were to award
17 ILECs the right to charge for load coil
18 removal, what tasks and task time assumptions
19 would be appropriate?"

20 Q. So, in other words, what you're
21 about to read there are Mr. Riolo's assumptions
22 for task times that he has proposed in this
23 proceeding?

24 A. Yes.

25 Q. Okay. Now, look down at the

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1 sentence beginning on line 21. I'm just going
2 to -- I don't mean to stand over you. I'm
3 sorry. I apologize.

4 A. That's fine.

5 Q. Will you agree with me that Mr.
6 Riolo has testified that because feeder cable is
7 normally placed in conduit when close to the
8 central office, I assume that the first two
9 load coil locations involve underground cable --
10 and you can flip over and read the rest of
11 that -- at manhole locations.

12 A. Yes, I agree with that, but if you
13 would allow me to, I will go ahead and read
14 the entire paragraph starting at line 18. And
15 this is the answer: "Load coils were deployed
16 starting when a copper loop reaches 18,000 feet
17 in length, at 6,000-foot intervals, starting with
18 three locations, at 3,000 feet, 9,000 feet, and
19 15,000 feet. Also, because feeder cable is
20 normally placed in conduit when close to the
21 central office, I assume that the first two
22 load coil locations involve underground cable at
23 the manhole locations. The third location is
24 most likely in aerial or buried locations.
25 Therefore, I have assumed that 50 percent of

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1 the time for deloading the third load coil
 2 location will be at the aerial location, and 50
 3 percent of the time deloading of the third load
 4 coil location will be at a buried location.
 5 Instead of the wide array of divergent proposals
 6 by the ILECs, the Commission can use the
 7 following work steps and conservative time
 8 estimates to estimate the cost involved in
 9 removing load coils from these three locations."

10 So based on that, I don't think it's
 11 90 percent/10 percent.

12 Q. In fact, he has assumed for the
 13 purpose of his study that the first two load
 14 coil removals are going to be 100 percent of
 15 the time in a manhole or what we call
 16 underground situation?

17 A. The first two load coils would be an
 18 underground. That's what he assumes, yes.

19 Q. And you just said for purposes of
 20 your rates that you've proposed, you've assumed
 21 2.1 load coils on loops under 18 kilofeet?

22 A. Yes.

23 Q. Do you disagree with the premise
 24 that the first two are normally going to be
 25 found in an underground environment?



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1 A. I would disagree with that, yes.

2 Q. And I'm sorry, I don't remember from
3 what you had -- from reading your testimony,
4 did you have an opinion stated as to the
5 percentage of times that you would find the
6 first two load coils in an underground
7 situation?

8 A. Yes, I have an opinion on that based
9 on the fact that loop conditioning doesn't only
10 take place in metropolitan areas for XDSL
11 services. When we are looking at loop
12 conditioning, we have to take into consideration
13 that this will be taking place not only in
14 metropolitan, but it will be taking place in
15 rural areas and suburban areas where actually
16 XDSL was designed to accommodate customers.

17 If we take a look at those areas,
18 my assumption assumes that underground will take
19 place 33 percent of the time, along with 33
20 percent aerial, 33 percent burial.

21 Q. So you've just given an equal third
22 to each of the possibilities?

23 A. Right. In other words, if there is
24 three load coils on the loop, the first one
25 will be underground plant, the possibility are

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1 for the second one and third of being aerial
2 and burial.

3 Q. Let's make sure I understand this.
4 Are you saying that there is an equal chance
5 that the first load coil you come to will be
6 underground aerial or burial?

7 A. I'm saying that the first load coil
8 will be underground.

9 Q. So the first one 100 percent of the
10 time is going to be underground?

11 A. Yes.

12 Q. It's when you move to the second
13 one, then it becomes an equal chance as to
14 whether you're going to find it above, below,
15 or way below?

16 A. It would be an equal chance that it
17 would be aerial or buried.

18 Q. Now, aerial or buried or underground
19 or just aerial or buried?

20 A. No. The way that I allocated the
21 times within the BellSouth model itself where
22 they allocate 90 percent, 10 percent, I allocate
23 33 percent for underground, 33 percent for
24 buried, 33 percent for aerial.

25 Q. Okay. You confused me with the

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1 second one. Have you made assumptions as to
2 where you're going to find each individual load
3 coil, or are you just saying overall?

4 A. I'm saying overall.

5 Q. So you've not made any assumptions
6 other than that the first one will always be
7 underground as to two or more. You're not
8 making assumptions as to the individual -- where
9 you're going to find them?

10 A. No, not individually. I'm doing it
11 on allocated percentage basis.

12 Q. I got you. I got you. The other
13 issue that you've raised here is are the loop
14 conditioning labor types proposed by BellSouth.
15 Will you agree with me that the times that have
16 been proposed basically by all the parties are
17 nothing more than estimates?

18 A. As far as I know, there have been
19 no time and motion studies performed. I
20 haven't performed any time and motion studies.
21 I would say that they are more -- a little bit
22 more than an estimated time. It would be more
23 the fact that I have performed the activities
24 and I know how long it takes. It's not an
25 estimate. It's a real-time assumption that I



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1 have made based on my experience so --

2 Q. Sure. And you made that based on
3 your experience in unloading load coils in a --
4 what I'm going refer to as rural Missouri,
5 just --

6 A. I wouldn't. You can refer to it as
7 rural, if you like. I probably wouldn't
8 necessarily agree with that. I think instead
9 of geographic location, you have to look at the
10 number of access lines that are served in the
11 location. And we had a substantial amount of
12 access lines.

13 Q. What were the number of access lines
14 in the area that you particularly worked in?

15 A. My estimate would be around 100,000.

16 Q. And are you aware that in
17 BellSouth's territory, there are cities such as
18 Miami, Ft. Lauderdale, West Palm Beach,
19 Jacksonville, Orlando, will you agree that in
20 those cities alone there are -- in each of
21 those cities there are more than 100,000 access
22 lines?

23 A. Yeah. I guess I should clarify my
24 statement. That would be 100,000 per wire
25 center.

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1 Q. And will you agree with me that
2 100,000 access lines per wire center is
3 substantially less than what you're going to
4 find in Miami?

5 A. I will agree to that, subject to
6 check, yeah.

7 Q. Same would be true for Ft.
8 Lauderdale, Jacksonville, Orlando?

9 A. Yes.

10 Q. Now, Mr. Riolo's work times were
11 also based on his experience in -- I think he
12 was in the Bell Atlantic system for some time.

13 A. (Nods head affirmatively.)

14 Q. You agree with me that your work
15 times vary from Mr. Riolo's work times?

16 A. I think that they do vary some, yes.

17 Q. Sure. And then the times proposed
18 by Mr. Greer differentiated from yours and Mr.
19 Riolo's?

20 A. I think what we need to look at, if
21 we are going to refer to that scenario, is that
22 Mr. Riolo's times and my times are very, very
23 close in proximity compared to Mr. Greer's,
24 which are very much excessive compared to Mr.
25 Riolo's and mine.

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1 Q. How much differentiation would you
2 agree is reasonable off of your time as a
3 percentage?

4 A. I'm not sure I can't speculate on
5 that.

6 Q. How about if a time was, say, double
7 what you had estimated, would that be
8 unreasonable?

9 A. For the entire activity or for each
10 individual activity?

11 Q. Why don't we go on each individual
12 activity.

13 A. I think you have to look at how the
14 times are allocated for each one of the steps
15 in the process. We have to assume that what
16 we would be looking at would be, for instance,
17 the total time it takes to do underground loop
18 modification or underground removal of load
19 coils. I think if you looked at that, the
20 times are very comparable between Mr. Riolo and
21 myself. Now, how those times are divided up, I
22 think, can vary based on how you allocate the
23 time down through a flowchart, so on and so
24 forth.

25 Q. Let me ask you this: You've got,

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1 from what I can tell, what I call four
2 categories of times; travel being one, a manhole
3 work site preparation being another, to open and
4 close the splice being another, and conditioning
5 pairs being what I call the final step.

6 A. Yes. And what I actually had done
7 was since I used BellSouth's model to calculate
8 the rates, I looked at the cost model to see
9 how BellSouth allocated the time in the cost
10 model, and then I placed the appropriate time
11 within the categories in the model.

12 Q. Now, you've allocated 15 minutes for
13 travel. What assumptions have you made about
14 travel times?

15 A. I've allocated 15 minutes to travel
16 based on the fact that when we are conditioning
17 loops, the first load coil or conditioning
18 location is going to be approximately 3,000 foot
19 from the central office. And I've also taken
20 into consideration that technicians are typically
21 assigned to a geographic location that they work
22 within all the time. And for a technician to
23 travel, based on my experience, the way we've
24 done it, is you could travel to any point in
25 your service area within approximately 15

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1 minutes.

2 Now, sometimes it would take you
3 more; sometimes it would take you less. It
4 could take you 45 minutes. It could take you
5 five minutes. So I have arrived at 15 minutes
6 as a reasonable average time for travel.

7 Q. Now, is this on a per-load coil
8 basis, or is this for removing the 2.1 that
9 you've assumed?

10 A. This is total travel time for the
11 activity of removing the load coils.

12 Q. So you're giving 15 minutes to
13 travel from -- are you assuming they are
14 leaving from the central office?

15 A. No, I don't assume that they
16 necessarily have to leave from the central
17 office.

18 Q. Did you make an assumption at all as
19 to where they are going to be leaving from?

20 A. I think they could be leaving from a
21 number of locations. They could be leaving
22 from another job. They could be leaving from
23 the reporting location. They could be leaving
24 from the central office. My time is based on
25 that they are going to be working in one

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1 geographic location. And they are going to be
2 assigned to that location, and their travel
3 within that location would be 15 minutes.

4 Q. Have you ever driven in Miami in a
5 rainstorm?

6 A. No, I have not.

7 Q. So you're allowing the service tech
8 to get from whatever the starting point may be
9 to the first -- well, I guess since you're
10 assuming 100 percent of the time for the first
11 load coil being underground, we are going from
12 the work area to the manhole, then you're going
13 to do a job there. You're then going from
14 that manhole to the second load coil, wherever
15 that may be, a third, you know, in each
16 possibility. And then in 10 percent of the
17 time, going to a third location and then back
18 to the central office?

19 A. No, I don't include back to the
20 central office.

21 Q. So you're just going from the
22 beginning point to the first load coil, to the
23 second load coil, and then in 10 percent of the
24 time to the third load coil?

25 A. I don't know about the 10 percent of

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1 the time to the third load coil.

2 Q. Well, didn't you make an assumption
3 that there are 2.1 load coils in your
4 assumption? Didn't you tell me you took
5 BellSouth's assumption?

6 A. Yes, that's true.

7 Q. So in 10 percent of the time, then,
8 there is going to be a third load coil?

9 A. Yes, I will accept that, yes.

10 Q. So again, from the starting point to
11 the first load coil to the second load coil and
12 in 10 percent of the time to a third load
13 coil, you're giving them 15 minutes to drive,
14 is that --

15 A. Yes, that's right.

16 Q. Did you see the videotape?

17 A. Yes, I did.

18 Q. Will you agree with me that that is
19 closer to a real world demonstration than a --
20 Mr. Riolo's example in the -- what I call the
21 confines of the hearing room, as far as what
22 can be encountered, some of the problems?

23 A. I think that was a very extreme
24 situation.

25 Q. I will give you that, that that was

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1 an extreme situation, but will you agree with
2 me that what you're liable to run into is
3 better reflected on that videotape than in the
4 sterile confines of a hearing room?

5 A. I think what we have to look at
6 when you refer to the videotape comparing it to
7 Mr. Riolo's example or demonstration that he
8 performed is that Mr. Riolo performed a loop
9 conditioning activity that you would encounter in
10 a manhole or in the aerial plant, either
11 one. So I think that the actual conditioning
12 of the pairs where he removes the load coil is
13 very valid. Now, when we look at the video
14 and we look at the pumping of the manhole,
15 getting down in there and actually performing
16 the work, that -- the pumping of the manhole,
17 personally, I had never seen a manhole that
18 full of water, you know, typically.

19 Q. Well, welcome to the tropical
20 climate.

21 A. Typically when you go into a
22 manhole, my experience is there will be very
23 little water in the bottom. In the video it
24 was very full. And we've seen why. There was
25 a defect in the manhole itself. I think the

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1 percentage of occurrence with that would be
2 very, very minimal that you would ever find
3 that. I think if we compare the work
4 activities with the exception of the extended
5 amount of time that it took to pump the manhole
6 and the extended amount of time that it took to
7 repair the leak in the wall and so on and so
8 forth, that the activity times are -- very much
9 compare to what Mr. Riolo and myself have
10 presented in this case.

11 Q. Let me ask you this, now: Mr.
12 Riolo was a management employee for the most
13 part. When you got done doing a load coil
14 removal, did you look more like Mr. Riolo did
15 after his demonstration or more like those guys
16 coming out of a manhole?

17 A. Of course, it would vary. You know,
18 when you get in a manhole, it is a dirty
19 environment. But also, we have to assume that,
20 you know, we are performing these activities in
21 aerial environments where it's very clean, which
22 would not be any different than Mr. Riolo's
23 demonstration; very easily accessed. Just as
24 far as a demonstration goes, I think it's very
25 valid.

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1 Q. Okay. Let's change gears for a
2 second. Talk about feeder cable and
3 distribution cable.

4 A. Yes.

5 Q. Have you made any assumptions as to
6 the general length of a feeder cable?

7 A. General length, no.

8 Q. Would you agree that the feeder
9 cable is generally out to closer to the 18
10 kilofeet than the -- in other words, what I'm
11 trying to figure out is can you make a
12 comparison between those -- this distinction
13 between loops over and under 18 kilofeet? Can
14 you somehow relate that to whether you're
15 talking distribution or feeder? Is there some
16 kind of analysis there or comparison to be made
17 there?

18 A. On length, I don't think so, as the
19 way you described it. Feeder typically can
20 feed loops very long in length, and the
21 distribution portion can branch off at any
22 location within that feeder, feeder route length.
23 So I don't think that we can necessarily limit
24 the length of feeder to any certain footage.

25 Q. In the Contel/GTE network, did they

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1 have feeder distribution interfaces, some kind of
2 a box that would mark where the feeder ended
3 and where the distribution began?

4 A. They would have what we refer to as
5 FDIs, feeder distribution interfaces, where the
6 box would be accommodating the feeder cable with
7 multiple distribution cables coming out of it
8 and act as a cross-connect point there, yes.

9 Q. Was there a general, I don't know,
10 understanding, general acceptance of how far the
11 feeder distribution interface was from the
12 central office?

13 A. Not to my knowledge, no. They
14 varied in length.

15 Q. So it could be anywhere from a
16 thousand feet to 20-something thousand feet or
17 more?

18 A. It's very possible. Typically, the
19 FDIs were not extended an exceptional distance
20 from the central office. You would find them
21 more in areas that would be more consolidated,
22 customers which were typically a little closer
23 to the central office.

24 Q. Do you feel comfortable making an
25 estimate as to how far out you would generally

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1 find a feeder distribution interface in the
2 central office?

3 A. Right now?

4 Q. Yes, now or --

5 A. No, I wouldn't feel comfortable until
6 I had done some analysis.

7 Q. Okay. Are you familiar with the
8 manner in which XDSL is being deployed, as far
9 as whether it's generally deployed in
10 metropolitan areas as opposed to rural areas at
11 the moment?

12 A. I am somewhat familiar with it, yes.

13 Q. Would you agree with me that at
14 least currently, that XDSL services are being
15 rolled out predominantly in metropolitan areas as
16 opposed to rural areas?

17 A. I think they are being rolled out in
18 large cities. Necessarily where they are
19 located within the city, it could be urban,
20 metropolitan, or rural. But I think they are
21 targeted for large cities, yes. I might add
22 that not that they couldn't be used in other,
23 but that's the target right now, yes, based on
24 business plans.

25 Q. I mean, certainly there is nothing

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1 that prevents XDSL from being rolled out
2 universally --

3 A. Exactly.

4 Q. -- from a technology standpoint, but
5 it looks like the target areas at least
6 initially appear to be the larger cities?

7 A. (Nods head affirmatively.)

8 Q. Let me back up. You made an
9 analysis here based on a 600 pair cable --

10 A. Yes.

11 Q. -- in your testimony. And the end
12 result of that is that there are 224 copper
13 pairs available for conditioning at a -- I'm
14 guessing at a particular location or at least
15 on -- or out of every 600 pair cable on
16 average, you're saying that there are 224 loops
17 available for conditioning. Am I reading this
18 wrong?

19 A. Actually, what I'm saying is I have
20 assumed a typical size of cable for feeder,
21 which is 600 pair. I have assumed a typical
22 size of cable for distribution, and taking both
23 sizes in consideration to allow for loops less
24 than 18,000 feet, loops over 18,000 feet. I
25 have applied fill factors to those accommodating

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1 penetration rates for new services, accommodating
2 any type of growth, and have arrived at a --
3 what I feel is a reasonable amount of spare
4 facilities that exist within the network that
5 could be conditioned.

6 Q. Okay. Are you suggesting that on a
7 single visit to a manhole, that 224 pairs
8 should be unloaded if, in fact, they are all
9 loaded?

10 A. I'm suggesting by that number that
11 it's a possibility that there could be 224 that
12 could be available to be unloaded.

13 Q. Are you advocating that?

14 A. I'm not advocating, in this
15 proceeding, that you unload all 224. We are
16 actually only advocating unloading 25. But if
17 you took a proactive approach to, you know,
18 positioning your network for future services,
19 yeah, I think it would be reasonable to deload
20 all of them, if you could.

21 Q. And who should pay for that?

22 A. I think that the way the cost model
23 works is that it's allocated between the
24 incumbent, it's allocated between the ILECs and
25 another percentage of allocation for future.

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1 Q. So you're willing to pay your share
2 of the time it's going to take to unload 224
3 if, in fact -- I mean, maybe I'm reading more
4 into this than I'm seeing here. I mean, are
5 you willing to pay for that?

6 A. No. We are willing to pay for what
7 we've proposed for rates in the proceeding.

8 Q. Which is 25, or did y'all do more
9 than --

10 A. It's based on 25 pair per location.
11 I will add that I think it should be zero, but
12 we have proposed the rates, but I feel it
13 should be zero.

14 Q. Now, I assume you're not holding
15 yourself out to be an economist, mathematician,
16 or statistician?

17 A. That's true.

18 Q. Can you tell me as you sit here
19 today the -- on a 600 pair cable, how many are
20 used for voice transmission as opposed to data
21 transmission from a percentages standpoint?

22 A. I think, of course, the voice
23 transmission is going to be higher than the
24 data transmission percentage.

25 Q. Can you quantify that as to in a

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1 600 pair cable the percentage you think is
2 going to be voice as opposed to data?

3 A. I can't quantify that at this point,
4 no.

5 Q. Is there a relationship between the
6 number of lines and the amount of traffic?

7 A. Could you clarify that for me?

8 Q. You could have a line for voice
9 transmission that I use once a day and I could
10 have the same line that's used for data
11 transmission. And if I have my computer up all
12 day long, it may send a lot more traffic than
13 my voice line does, but it is still one line
14 each, that that's -- does that sound
15 unreasonable to you? That the number of lines
16 is not necessarily -- there is not necessarily
17 a relationship between the amount of data and
18 the number of lines?

19 A. I would say that's true. I'm trying
20 to figure out what the relevance of that is,
21 though.

22 Q. Just let me worry about that, and
23 you just stick with answering it.

24 You've referenced this DataQuest
25 report. That voice traffic is growing at an

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1 annual rate of 6.9 percent, while data traffic
2 is growing at 36.5 percent. Does that
3 necessarily equate to line growth? Or is that
4 just traffic?

5 A. Give me just a second and let me
6 read this paragraph from my testimony.

7 This refers to data traffic in my
8 testimony.

9 Q. Okay. So I take it you would now
10 agree that the question is relevant since it's
11 in your testimony?

12 A. Yes. I don't know --

13 Q. Have you read the -- I'm sorry.

14 A. Go ahead. I'm sorry.

15 Q. Have you read the DataQuest report?

16 A. I have seen it, yes.

17 Q. Have you read it?

18 A. Yes.

19 Q. Start to finish?

20 A. I don't know about start to finish,
21 but I have read portions of it.

22 Q. Do you know whether that study was
23 for a particular region, or was this just
24 making general assumptions on a national basis?

25 A. This was on a national basis.

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1 Q. You will agree with me that with the
2 advent of the new technologies, that it's
3 possible to run data and voice over the same
4 line, same copper facility?

5 A. Yes.

6 Q. Will you agree with me that if
7 you're going to utilize that setup -- in other
8 words, you're going to be running voice and
9 data over the same copper facility -- that you
10 may not necessarily experience increased demand
11 for data lines?

12 A. I don't know if I would agree with
13 that.

14 Q. If you're going to run it over the
15 same line, you don't need an additional line,
16 almost by definition, right?

17 A. You don't need an additional pair,
18 no.

19 Q. If an ALEC orders one XDSL loop, you
20 want BellSouth to go, as I understand it, to go
21 out and if, in fact, it's loaded, to go ahead
22 and remove the load coils for 25 of those
23 loops?

24 A. Yes.

25 Q. Are you willing to pay for the

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1 unloading of the other 24 pairs?

2 A. In its entirety, no.

3 Q. Are you willing to pay for a portion
4 of unloading the other 24 pairs?

5 A. We are willing to pay the rate that
6 proposed in this proceeding, which is based on
7 25 pair, as it's allocated within the BellSouth
8 cost model.

9 Q. So you've actually proposed some --
10 you know, in BellSouth we refer to it as an
11 additive charge, I guess. And y'all have
12 proposed something similar to that?

13 A. Actually, there is an additive that's
14 included in the exhibits in my testimony. I do
15 not promote the additive to recover the
16 additional 24 pair, even though it was an
17 output of the TELRIC calculator, which I could
18 not tell the calculator not to give it as an
19 output. So it did calculate a rate for it,
20 but I don't promote it.

21 Q. But you have proposed a rate in your
22 testimony?

23 A. Yes.

24 Q. Will you agree with me as a general
25 premise that you do not want to handle cable

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1 pairs very often; that the more you handle it,
2 the more likely something is going to break?

3 A. I would agree to that.

4 Q. Do you know the difference in pulp
5 cable and PIC cable?

6 A. Yes, I do.

7 Q. Tell me the difference in the two.

8 A. PIC cable is polyethylene insulated
9 cable, which is kind of a plastic-style
10 insulation that covers a copper conductor. Pulp
11 cable is a papery-type substance that covers the
12 conductor.

13 Q. Back in the '60s, '70s, maybe even
14 the '50s, would you agree that pulp cable was
15 put in more predominantly than PIC cable?

16 A. I'm not sure what they were putting
17 in the '50s and '60s. I know what you see
18 within the network. I don't know exactly what
19 they were installing then.

20 Q. What are you seeing in the network
21 from at -- at least that which was installed
22 before 1980, what were you seeing more going
23 in?

24 A. Depends on where it was located
25 within the network.

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1 Q. How about within the first 9
2 kilofeet from the central office?

3 A. I think that you will occasionally
4 see PIC cable within the first 3,000 feet,
5 possibly. When they actually quit installing
6 pulp cable, I'm not for sure.

7 Q. So within the first -- did you say
8 first 3,000?

9 A. I think that you could see some pulp
10 cable at the first load coil spot, but I think
11 it's rare.

12 Q. Pulp is rare?

13 A. Pulp is more rare than PIC, yes.

14 Q. Let's talk about service inquiry for
15 a moment.

16 A. Sure.

17 Q. What is your understanding of what's
18 taking place when BellSouth puts in service
19 inquiry charges?

20 A. This would be the process that takes
21 place of processing the order from the ALEC.

22 Q. What is your understanding of what
23 that involves?

24 A. Well, I have a description that was
25 given in the cost model that I can refer to.

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1 Q. Let me do this: Feel free to refer
2 to it, but what I'm really getting at is do
3 you have an understanding of it independent from
4 what you've read?

5 A. Yes, I have an opinion on it, yes.

6 Q. Okay. Go ahead.

7 A. What actually happens is the ALEC
8 would send a service inquiry style request to
9 BellSouth in this situation. BellSouth would
10 review the service inquiry form, check it for
11 validity. And then at that point they would
12 pass it on to the outside plant people, I guess
13 you would say. And the outside plant people
14 would then review the form, look at any type of
15 things that need to be done to that particular
16 loop, the location of the loop, whether or not
17 it needs unbundled loop modification, so on and
18 so forth. And then they would send that
19 information back to be processed for billing.

20 Q. Okay. Have you ever performed that
21 job yourself?

22 A. No, I haven't performed it myself.
23 I worked daily with the customer services group
24 that did.

25 Q. You worked -- in what time frame was

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1 this?

2 A. This would have been when I was
3 working for GTE.

4 Q. So this would have been the '90 to
5 '97 time frame?

6 A. Yes.

7 Q. In the 1990 to 1997 time frame, did
8 GTE have operation support systems that it had
9 set up for competitors?

10 A. No, it did not, to my knowledge.

11 Q. Have you ever worked hands on with
12 operation support systems that are set up for
13 competitors?

14 A. For competitors, I have not.

15 Q. Will you agree with me from a
16 premise that BellSouth's outside plant
17 technicians are more familiar with BellSouth's
18 network than you are?

19 A. Yes.

20 Q. Would you expect to find bridged tap
21 within 9 kilofeet from the central office?

22 A. Would you expect to find it? You
23 could find it. I don't know if you would
24 expect to see it. It's possible that it could
25 be there, but I wouldn't expect it.

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1 Q. Going back to the movie, as I call
2 it, for a second -- and granted, I will give
3 you that that was an extreme case --

4 A. Um-hmm.

5 Q. -- did you see anything on the film
6 that was unnecessary, that you looked at and
7 said that is not something that I ever did or
8 that is something that they should not have
9 done in the process?

10 A. I'm just trying to think back at the
11 film for just a second. I'm thinking back to
12 where they were toning each individual pair
13 after they located the pairs that they were to
14 condition. I don't think that's always
15 necessary after you find the group of cable
16 pairs that you're going to work within. So
17 that would be one thing that I don't think is
18 necessary.

19 Q. Is that something you ever did? You
20 never toned pairs?

21 A. Yeah, we did have to tone pairs,
22 tone a pair to locate your binder group that
23 you were going to work in or the number of
24 cable pairs that you were going to work in if
25 you were working in pulp cable. We did do

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1 that. We didn't tone each individual pair that
2 we were going to condition. Also, in the
3 video, they were performing some typical
4 maintenance functions. They were repairing the
5 grounding bonds after they had conditioned the
6 pairs, which I don't feel that is necessarily a
7 part of unbundled loop modification. That's a
8 regular maintenance function. Of course, they
9 did repair the hole in the wall, which I would
10 consider typical maintenance. The pumping that
11 they had done, to me seemed like it took an
12 excessive amount of time based on the size of
13 the pump that they were using. I think
14 typically if you would have an amount of water
15 that would need to be pumped like that
16 extremely large manhole with an extremely large
17 amount of water, that you would use a little
18 larger pump than what they were using to pump
19 it out, maybe like a 3 or 4-inch pump would be
20 something that we would have use.

21 Q. Did you find fault with them adding
22 a second pump to try to get it down?

23 A. I wouldn't find fault with that, no.
24 I think that the technicians worked hard. And,
25 you know, but I don't think necessarily that

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1 everything they had done was the most efficient
2 way to do it.

3 Q. Now, you also had some issues with
4 the engineering times.

5 A. Yes.

6 Q. And BellSouth uses the -- I never
7 get this acronym right -- Computer-Aided Design
8 system?

9 A. Yes.

10 Q. CADs. Is that what they call it
11 CADs?

12 A. CAD, yes, C-A-D.

13 Q. Are you familiar with that system?

14 A. I'm familiar with BellSouth uses
15 Mapviewer, or has access to Mapviewer. And,
16 yes, I am familiar with that.

17 Q. Have you ever used a CAD system?

18 A. Yes, I have.

19 Q. They had that in GTE?

20 A. No. Actually, I have used one of
21 those systems since I've been in the consulting
22 business.

23 Q. Oh, okay.

24 A. But they did have CAD systems at GTE
25 also, yes, they did.

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1 MR. EDENFIELD: Let me go through
2 real quick I may be done.

3 (Whereupon, there was a brief
4 recess.)

5 Q. (By Mr. Edenfield) Take a look at
6 page 22 and page 23 of your testimony. You've
7 got a list of activities. Are you with me?

8 A. Yes.

9 Q. A through H?

10 A. Um-hmm.

11 Q. While we certainly disagree on the
12 times, are there any one of these that you feel
13 like is completely unnecessary or that BellSouth
14 does not actually perform? That may be two
15 separate questions.

16 A. Give me just a second.

17 Q. Sure. Take your time to look
18 through them.

19 A. To the first part of your question,
20 no, I have no reason to believe that these
21 steps are not necessary.

22 Q. Okay.

23 A. What was the second part? I forgot.

24 Q. Well, since the other part of that
25 was or don't perform, but I assume you agree

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1 that we actually perform the steps?

2 A. Yes, I would say you would.

3 Q. And your disagreement is not over
4 whether it's necessary; it's over the amount of
5 time it takes to complete it?

6 A. Yes.

7 MR. EDENFIELD: I think I'm done
8 with Mr. McPeak. Any --

9 MR. SLOAN: No redirect.

10 MR. EDENFIELD: Diana, did y'all
11 have any questions?

12 MS. CALDWELL: Yes, we just had one
13 or to to.

14 **CROSS-EXAMINATION**

15 **BY-MS. CALDWELL:**

16 Q. Mr. McPeak, good morning. This is
17 Diana Caldwell with the Florida Commission
18 staff.

19 A. Good morning.

20 Q. Good morning. You stated that you
21 had watched BellSouth's video for removal of the
22 load coil; is this correct?

23 A. Yes, ma'am.

24 Q. Did you happen to notice whether the
25 hose that pumped the water out of the manhole

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had a kink in it?

A. No, you know, I apologize. I didn't notice that, if it did.

Q. Well, if it did, would this account for an inordinate amount of time to pump the manhole?

A. I would say that, yes, if it had a kink in it, I think it would affect the way that the pump would operate, yes.

MS. CALDWELL: All right. That's all I had. Thank you.

THE WITNESS: Thank you.

MR. EDENFIELD: All right. I guess we are done with Mr. McPeak.

(Cross-examination concluded.)



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11 in the case; am not in the employ of counsel
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13 interested in the result of said case.
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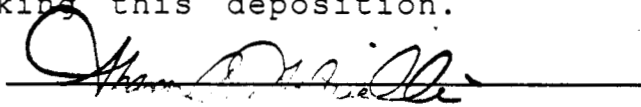
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CAPTION

1
2 The Deposition of **Eric McPeak**, taken in
3 the matter, on the date, and at the time and
4 place set out on the title page hereof. It
5 was requested that the deposition be taken by
6 the reporter and that same be reduced to
7 typewritten form. It was agreed by and between
8 counsel and the parties that the Deponent will
9 read and sign the transcript of said deposition.
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5 I, JANE FAUROT, RPR, Chief, FPSC Bureau of Reporting,
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10 It is further certified that I stenographically
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17 I FURTHER CERTIFY that I am not a relative, employee,
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22 DATED THIS 24TH DAY OF OCTOBER, 2000.

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