

0993

1

BEFORE THE WASHINGTON STATE

2

UTILITIES AND TRANSPORTATION COMMISSION

3

In the Matter of the Review of)
Unbundled Loop and Switching) DOCKET NO. UT-023003
4 Rates; the Deaveraged Zone)
Rate Structure; and Unbundled)
5 Network Elements, Transport,) Volume XIV
and Termination (Recurring) Pages 993 to 1210
6 Costs))
_____)

7

8

A hearing in the above matter was held on

9

June 2, 2004, from 9:35 a.m to 6:00 p.m., at 1300 South

10

Evergreen Park Drive Southwest, Room 206, Olympia,

11

Washington, before Administrative Law Judge THEODORA

12

MACE and Chairwoman MARILYN SHOWALTER and Commissioner

13

RICHARD HEMSTAD and Commissioner PATRICK J. OSHIE.

14

The parties were present as follows:

15

THE COMMISSION, by SHANNON SMITH, Assistant
16 Attorney General, 1400 South Evergreen Park Drive
Southwest, Post Office Box 40128, Olympia, Washington,
17 98504-0128, Telephone (360) 664-1192, Fax (360)
586-5522, E-Mail ssmith@wutc.wa.gov.

18

VERIZON NORTHWEST, INC., by WILLIAM R.
19 RICHARDSON, JR., Attorney at Law, Wilmer Cutler
Pickering Hale & Dorr, 2445 M Street Northwest,
20 Washington, DC 20037, Telephone (202) 663-6038, Fax
(202) 663-6363, E-mail william.richardson@wilmer.com;
21 and by CATHERINE KANE RONIS, Telephone (202) 663-6380,
E-mail catherine.ronis@wilmer.com.

22

23

24

Joan E. Kinn, CCR, RPR
25 Court Reporter

0994

1 AT&T OF THE PACIFIC NORTHWEST, INC., by
2 GREGORY J. KOPTA, Attorney at Law, Davis, Wright,
3 Tremaine, LLP, 1501 Fourth Avenue, Suite 2600, Seattle,
4 Washington 98101, Telephone (206) 628-7692, Fax (206)
5 628-7699, E-mail gregkopta@dwt.com; and by MARY E.
6 STEELE, Telephone (206) 903-3957, E-mail
7 marysteele@dwt.com.

8 COVAD COMMUNICATIONS COMPANY, by KAREN FRAME,
9 Attorney at Law, 7901 Lowry Boulevard, Denver, Colorado
10 80504, Telephone (720) 208-1069, Fax (720) 208-3256,
11 E-mail kframe@covad.com.

12
13
14
15
16
17
18
19
20
21
22
23
24
25

0995

1 -----

2 INDEX OF EXAMINATION

3 -----

4 WITNESS: PAGE:

5 THOMAS L. SPINKS

6 Direct Examination by Ms. Smith 1002

7 Cross-Examination by Ms. Ronis 1005

8 Examination by Dr. Gabel 1042

9 Examination by Chairwoman Showalter 1051

10 Examination by Commissioner Hemstad 1082

11 Examination by Commissioner Oshie 1086

12 Examination by Chairwoman Showalter 1090

13 Examination by Dr. Gabel 1092

14 Cross-Examination by Ms. Ronis 1096

15 Redirect Examination by Ms. Smith 1101

16 Examination by Dr. Gabel 1103

17 RICHARD CHANDLER AND JOSEPH GILLAN

18 Direct Examination by Mr. Kopta 1105

19 Cross-Examination by Ms. Ronis 1112

20 Examination by Chairwoman Showalter 1131

21 Examination by Dr. Gabel 1141

22 Examination by Chairwoman Showalter 1150

23 STEVEN E. TURNER

24 Direct Examination by Ms. Steele 1153

25 Cross-Examination by Mr. Richardson 1158

0996

1	Examination by Dr. Gabel	1192
2	Examination by Chairwoman Showalter	1198
3	Cross-Examination by Mr. Richardson	1201
4	Redirect Examination by Ms. Steele	1204
5	Recross-Examination by Mr. Richardson	1206
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		

0997

1 -----
2 INDEX OF EXHIBITS
3 -----

4

5	EXHIBIT:	MARKED:	ADMITTED:
6	THOMAS L. SPINKS		
7	1052		1004
8	1056T		1004
9	1057		1004
10	1058		1004
11	1059		1004
12	1062T		1004
13	1063C		1004
14	1065T		1004
15	1069	1100	1100
16	RICHARD CHANDLER AND JOSEPH GILLAN		
17	801TC		1111
18	802TC		1111
19	803T		1111
20	804C		1152
21	STEVEN E. TURNER		
22	751TC		1155
23	752		1155
24	753C		1155
25	754C		1155

0998

1	755C	1155
2	756C	1155
3	757	1155
4	758	1209

5

6 Bench Requests

7	8	1104
---	---	------

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

0999

1 P R O C E E D I N G S

2 JUDGE MACE: Let's be on the record in Docket
3 Number UT-023003. This is the Review of Unbundled Loop
4 and Switching Rates and Review of the Deaveraged Zone
5 Rate Structure also known as the Recurring Cost Docket.
6 Today is June 2nd, 2004, and we are convened for
7 evidentiary hearing at the offices of the Washington
8 Utilities and Transportation Commission in Olympia,
9 Washington.

10 Since this is the beginning of our second
11 week, I would just like to have oral appearances at this
12 point, brief oral appearances.

13 MS. RONIS: Yes, good morning. Catherine
14 Kane Ronis of Wilmer Cutler Pickering Hale & Dorr, LLP
15 on behalf of Verizon. And with me today is my
16 colleague, Bill Richardson. He will be appearing later
17 today.

18 JUDGE MACE: Thank you.

19 MR. KOPTA: Gregory J. Kopta of the law firm
20 Davis, Wright, Tremaine, LLP on behalf of AT&T. And
21 also appearing with me later this afternoon will be Mary
22 Steele.

23 JUDGE MACE: Thank you.

24 MS. FRAME: Karen Frame with Covad
25 Communications Company.

1000

1 MS. SMITH: Shannon Smith, Assistant Attorney
2 General, here on behalf of Commission Staff.

3 JUDGE MACE: Is there anyone who wishes to
4 enter an appearance who is on the conference bridge?

5 Okay, it sounds like there isn't anyone on
6 the conference bridge.

7 We just wanted to explain for the benefit of
8 the commissioners who are on the Bench with me, we have
9 some revised testimony from Staff this morning, and we
10 also have, and Staff will explain further when
11 Mr. Spinks is presented, also we have two responses to
12 Bench requests that were directed to Dr. Selwyn, and I
13 just wanted to make sure the Commissioners were aware
14 that they had that in front of them as well.

15 I want to also just briefly address the
16 response to the Bench Request Number 3, which was:

17 Provide revised tables in Exhibits 655
18 and 651T reflecting corrections to the
19 erroneous data for SBC that was
20 discussed during the evidentiary
21 hearings. Please include workpapers
22 describing how the calculations were
23 developed.

24 It's a fairly voluminous response, Mr. Kopta,
25 and I wanted to find out from you exactly what was

1001

1 included in the response.

2 MR. KOPTA: Certainly, Your Honor. What
3 Dr. Selwyn did was if you see the first few pages that
4 are numbered BR3-1 through 10 was to provide an
5 explanation of how he corrected the numbers and how
6 those fit, those corrected numbers fit into the analysis
7 that he had conducted. Following those pages are
8 corrections to Dr. Selwyn's testimony in a redlined
9 format that simply update the numbers that changed as a
10 result of his corrections. Then following those pages
11 are corrections to attachment 4 to his testimony, which
12 is Exhibit 655. This is the entire exhibit, not all of
13 which was changed, but for the interest of completeness
14 he just included the entire exhibit with the changes
15 that he discussed in his explanation.

16 He also prepared a redline of this Exhibit
17 655 which we have provided to counsel for Verizon, but
18 if the Commission would find that useful we can also
19 provide that to the Commission so that you can see what
20 Dr. Selwyn changed.

21 JUDGE MACE: I think it probably would be
22 beneficial for us to have that.

23 MR. KOPTA: Then we will provide copies of
24 that later today or tomorrow.

25 JUDGE MACE: All right, thank you.

1002

1 Is there anything preliminary before we go
2 ahead with Mr. Spinks who is our first scheduled witness
3 today?

4 If not, then, Mr. Spinks, would you please
5 stand.

6

7 Whereupon,

8

 THOMAS L. SPINKS,

9 having been first duly sworn, was called as a witness
10 herein and was examined and testified as follows:

11

12 D I R E C T E X A M I N A T I O N

13 BY MS. SMITH:

14 Q. Good morning, Mr. Spinks.

15 A. Good morning.

16 Q. Could you please state your name and give
17 your employer and position for the record, please.

18 A. My name is Thomas Spinks. My employer is the
19 Washington Utilities and Transportation Commission, 1300
20 South Evergreen Park Drive, P.O. Box 47250, Olympia,
21 Washington.

22 Q. Do you have before you what's been pre-marked
23 in this docket as Exhibit 1052, Exhibit 1056T, Exhibit
24 1057, Exhibit 1058, Exhibit 1059, Exhibit 1062, Exhibit
25 1063C, and Exhibit 1065T?

1003

1 A. Yes, I do.

2 Q. Do you have any corrections to those
3 exhibits?

4 A. Yes, I do. In my response testimony Exhibit
5 1062T at page 9, page 8, line 12, through page -- from
6 lines 12 to line 19, I'm striking that testimony.

7 JUDGE MACE: Mr. Spinks, your counsel has
8 provided us with pages that show the strike throughs of
9 that, that can be substituted into your testimony?

10 THE WITNESS: Yes.

11 JUDGE MACE: All right, thank you.

12 A. And on page 9 at line 6 and 7 of that
13 testimony, there's some strikeout too.

14 And in the rebuttal testimony Exhibit 1065T
15 beginning on page 9, line 8, and following through page
16 10, line 4, that is also struck from my testimony.

17 And that's all of the changes.

18 BY MS. SMITH:

19 Q. Mr. Spinks, were those exhibits prepared by
20 you or under your direction?

21 A. Yes, they were.

22 Q. And taking into account the previously filed
23 revisions to this testimony and your corrections on the
24 stand today, if I were to ask you the same questions
25 that are in your testimony today, would your answers be

1004

1 the same?

2 A. Yes, they would.

3 MS. SMITH: Your Honor, I move the admission
4 of Exhibit 1052, 1056T, 1057, 1058, 1059, 1062T, 1063C,
5 and 1065T.

6 JUDGE MACE: Is there any objection to the
7 admission of those exhibits?

8 MS. RONIS: No objection.

9 JUDGE MACE: Hearing no objection, I will
10 admit those exhibits.

11 MS. SMITH: Mr. Spinks is available for
12 cross-examination.

13 JUDGE MACE: Does he have a summary that he's
14 presenting or not?

15 MS. SMITH: No, he did not prepare a summary.

16 JUDGE MACE: And Verizon cross-examination, I
17 have down 45 minutes for Verizon and 15 minutes for
18 AT&T, is that still a good time estimate?

19 MS. RONIS: Yes.

20 MR. KOPTA: We probably won't have any
21 questions, but we'll wait and see.

22 JUDGE MACE: Very well, go ahead.

23

24

25

1005

1 C R O S S - E X A M I N A T I O N

2 BY MS. RONIS:

3 Q. Good morning, Mr. Spinks.

4 A. Good morning.

5 Q. Now you filed direct testimony in this
6 proceeding on June 26, correct?

7 A. Of 2003.

8 Q. 3?

9 A. Yes.

10 Q. And in your direct testimony filed on June
11 26, 2003, you recommended that the Commission adopt the
12 Hatfield model with some adjustments, correct?

13 MS. SMITH: Your Honor, I would object to
14 this testimony or this questioning. Mr. Spinks has not
15 offered his June 26 testimony into the record. He has
16 offered testimony that he filed to supplement that in
17 January.

18 JUDGE MACE: Ms. Ronis.

19 MS. RONIS: Well, I think it's relevant that
20 back in June of 2003 he did file testimony and did
21 recommend the Hatfield model. I think it goes to the
22 issues you will see through the rest of my cross on this
23 line that he had reviewed -- he had recommended Hatfield
24 before he saw the Verizon model, and that's simply the
25 point I want to establish. And we don't need the

1006

1 testimony in the record, it's just a simple fact point
2 about when he first recommended Hatfield.

3 (Discussion on the Bench.)

4 JUDGE MACE: All right, we'll allow the
5 answer. Now do you want to pose the question again?

6 MS. RONIS: Yes.

7 BY MS. RONIS:

8 Q. In your June 26, 2003, testimony you
9 recommended the Commission adopt the Hatfield model with
10 some adjustments; isn't that correct?

11 A. I believe that's correct.

12 Q. Verizon also filed direct testimony in its
13 cost models on June 26, 2003; isn't that correct?

14 A. Yes.

15 Q. And the model Verizon filed on June 26, 2003,
16 is different from the model that Verizon filed, and then
17 they were GTE of course, in 1997, correct?

18 A. Yes.

19 Q. So you had decided to recommend the Hatfield
20 model before you saw Verizon's model; isn't that
21 correct?

22 A. Yes.

23 Q. Now you state in your May 10th supplemental
24 direct testimony that's been marked as 1056T that you
25 received a version 5.3 of the Hatfield model before you

1007

1 filed your direct testimony on June 26, 2003, correct?

2 A. Yes.

3 Q. Did you consult with AT&T regarding this
4 version of the Hatfield model prior to recommending it
5 in this proceeding?

6 MS. SMITH: Your Honor, again I would object
7 to this. His testimony says what it says. He is
8 recommending the Hatfield model. He filed his direct
9 testimony at the same time Verizon filed its cost model
10 in this case, their competing direct testimony, and the
11 June testimony isn't even offered into the record, so he
12 shouldn't stand cross-examination on testimony he's not
13 offering.

14 (Discussion on the Bench.)

15 JUDGE MACE: We're going to sustain the
16 objection. It appears that we thought your earlier
17 question was just a preliminary nature to get to the
18 point of addressing the testimony that is filed by
19 Staff, and at this point it appears that you're going
20 beyond that sort of preliminary nature. We would ask
21 you to focus on the testimony that has been filed and is
22 supported by Staff at this point and what Mr. Spinks
23 actually recommends at this point.

24 BY MS. RONIS:

25 Q. That was my last question on this line. Can

1008

1 I ask then the question without reference to your June
2 26 direct testimony, just generally did you consult with
3 AT&T prior to recommending the Hatfield version 5.3 in
4 this proceeding?

5 A. I'm not sure what you mean by consult.

6 Q. Did you ask them about any changes made
7 between previous versions of Hatfield and version 5.3,
8 the version that was filed in this proceeding?

9 MS. SMITH: Your Honor, I would object to
10 this in terms of relevancy. I don't understand why it's
11 relevant or if it's relevant whether he discussed any
12 changes to the model in intervening times throughout his
13 testimony. He has provided testimony as to why he
14 thinks one model should be adopted, and that's the
15 testimony that he should be cross-examined on. His
16 whole process on how he reached that, you know, in terms
17 of whether he has discussed it with AT&T isn't relevant.

18 JUDGE MACE: We'll sustain the objection.

19 BY MS. RONIS:

20 Q. Mr. Spinks, isn't it true that this
21 Commission in previous orders, specifically the Eighth
22 Supplemental Order in the UNE case and the Tenth
23 Supplemental Order in the USF case found problems with
24 the Hatfield model?

25 A. Oh, yes.

1009

1 Q. And it's your position that AT&T's version
2 5.3 corrected those problems?

3 A. Some of them I discussed in length, which I
4 discussed in my testimony.

5 Q. And with respect to the changes they made
6 that you state fixed the problems, on what basis do you
7 make that statement?

8 A. Well, is there a specific issue that you had
9 in mind about the model --

10 Q. Sure.

11 A. -- that the Commission --

12 Q. Let's go to -- let's first go to page 8,
13 lines 5 through 9, of your supplemental direct
14 testimony, which has been marked as Exhibit 1056.

15 A. Yes, I see that.

16 CHAIRWOMAN SHOWALTER: I'm just going to make
17 a suggestion. If you're going to refer us to an
18 exhibit, can you please state the exhibit number first,
19 then wait a little bit, and then the page and line.
20 Otherwise we forget the page and line by the time we
21 hear the exhibit number.

22 MS. RONIS: Sure.

23 CHAIRWOMAN SHOWALTER: Thank you.

24 MS. RONIS: It's Exhibit 1056, page 8, lines
25 5 through 9.

1010

1 BY MS. RONIS:

2 Q. Are you there, Mr. Spinks?

3 A. Yes, I am.

4 Q. Okay. So here you state that you are
5 recommending the Hatfield model with some modified
6 inputs, and in particular you use some inputs from the
7 Commission's prior order, the Eighth Supplemental Order,
8 correct?

9 A. The inputs came from both the Eighth
10 Supplemental Order and the Eleventh Supplemental Order
11 in the USF case.

12 Q. So to be more specific, with the exception of
13 the cost of capital, depreciation, and an adjustment to
14 loop lengths that you propose here, you use the inputs
15 previously ordered by the Commission in the Eighth
16 Supplemental Order and the Eleventh Supplemental Order
17 from the USF case?

18 A. No, the copper, prices for copper cable were
19 also different.

20 Q. And you used the prices that were in Hatfield
21 version 5.3 for those inputs, correct?

22 A. That were in the 5.2a, and switching prices
23 were also different from the prior generic cases.

24 Q. Now the inputs from the Eighth Supplemental
25 Order and the Eleventh Supplemental Order that you used,

1011

1 they were inputs that the Commission ordered because
2 they didn't believe the Hatfield inputs were correct; is
3 that a fair statement?

4 A. I don't know, I can't answer for -- other
5 than what's in the Commission orders with regard to
6 their decisions.

7 Q. But they are different from the Hatfield --

8 A. But they would be -- yes, they changed the
9 inputs, that's correct.

10 Q. And the Eighth Supplemental Order was issued
11 in 1998; isn't that correct?

12 A. Yes.

13 Q. And it was based on cost studies and evidence
14 submitted in 1997?

15 A. Yes.

16 Q. Isn't that correct?

17 A. Yes.

18 Q. So you did not use any of the updated inputs
19 Verizon has proposed in this proceeding; isn't that
20 correct?

21 A. Yes.

22 Q. And you don't discuss any of the Verizon
23 inputs from the Verizon models in your testimony; isn't
24 that correct?

25 A. Yes, that's correct. The purpose of updating

1012

1 -- the purpose of this proceeding is to update the cost
2 models as the Commission stated in the order opening
3 this case that I cite in my testimony. The -- we have
4 been conducting these proceedings for about eight years
5 now, and a number of decisions have been made about
6 inputs like structure sharing and loop length
7 adjustments that in my view weren't subject to updates
8 per se. Certainly input prices may have changed, but
9 the purpose here was to provide the Commission with a
10 view of what the loop costs would be using the decisions
11 that they had already made. And in that way I had hoped
12 that we would focus on what the differences in cost
13 models were by holding the inputs constant, and which
14 wasn't to say that I checked every input and I thought
15 it was still appropriate to use.

16 Q. Let's explore some of the reasons the
17 Commission adopted certain inputs in its 1998 Eighth
18 Supplemental Order. I handed a copy to you earlier this
19 morning.

20 JUDGE MACE: That's been marked as an
21 exhibit, has it not?

22 MS. RONIS: Yes, that's Exhibit 869. I'm
23 going to refer everyone to Paragraph 134.

24 JUDGE MACE: Who was that, what was the
25 witness for whom that was marked?

1013

1 MS. RONIS: I believe it was Dr. Mercer.

2 MS. SMITH: May I inquire as to whether the
3 witness has a copy before him?

4 MS. RONIS: Yes.

5 MS. SMITH: Thank you.

6 MS. RONIS: I provided one this morning.

7 CHAIRWOMAN SHOWALTER: What page?

8 MS. RONIS: Paragraph 134 that begins on page
9 30.

10 CHAIRWOMAN SHOWALTER: Just so we're clear,
11 our Paragraph 134 of this exhibit begins on page 36, so
12 could you read the first four words or so.

13 MS. RONIS: (Reading.)

14 For each of the density zones with less
15 than 2,550 lines per square mile.

16 CHAIRWOMAN SHOWALTER: Yes, that's on our
17 page 36, but that's a good reason for paragraph numbers.

18 MS. RONIS: Is everyone on the same page
19 here?

20 JUDGE MACE: Go ahead.

21 BY MS. RONIS:

22 Q. Mr. Spinks, this paragraph is addressing the
23 cost for drop lengths, correct?

24 A. Yes.

25 Q. Now the third sentence reads:

1014

1 We do not adjust the lengths in the
2 other studies because no alternative
3 lengths are proposed. The lack of
4 adjustment to these studies should not
5 be interpreted as an acceptance of the
6 values.

7 Did I read that correctly?

8 A. Yes.

9 Q. So the Commission adopted drop length inputs
10 in that order equal to the Hatfield model because no
11 other alternatives were proposed?

12 MS. SMITH: I would object to that. The
13 order speaks for itself, and I don't think it's proper
14 to have the witness interpret what the order means. We
15 can all see what it means.

16 MS. RONIS: I will withdraw the question.

17 JUDGE MACE: Thank you.

18 BY MS. RONIS:

19 Q. Let's turn to another subject. In Exhibit
20 1056, that's your supplemental direct, beginning on line
21 10, going over to page 8, line 2, here you're discussing
22 the fact that the Commission in its Eighth Supplemental
23 Order --

24 JUDGE MACE: Which page were you on?

25 MS. RONIS: Page 7.

1015

1 JUDGE MACE: Thank you.

2 MS. RONIS: Lines 10 through page 8, line 2.

3 JUDGE MACE: Thank you.

4 BY MS. RONIS:

5 Q. Here you're discussing the fact that the
6 Commission in its Eighth Supplemental Order and its
7 Tenth Supplemental Order in the UNE, the USF case,
8 didn't adopt the Hatfield model and found certain
9 problems with the model, correct?

10 A. That's correct.

11 Q. Now please turn to page 6 of that same
12 exhibit.

13 A. Yes, I have that.

14 Q. Now starting on line 6 and going over to page
15 7, line 2, you're stating here though that the new
16 Hatfield version 5.3 addresses some of the Commission's
17 previous concerns. Is that a fair characterization of
18 your testimony?

19 A. No, here I'm discussing the changes between
20 HAI 5.0, which was I believe used in the universal
21 service docket, and HAI 5.2a, which was the version of
22 the HAI model that I began using at the outset of the
23 proceeding.

24 Q. And version 5.3 includes those same
25 modifications that were incorporated into version 5.0

1016

1 and 5.2a?

2 A. That's correct.

3 Q. Now let's go through some of these items that
4 you state on these pages were changed in subsequent
5 Hatfield versions. At lines 7 through 10 on page 6, you
6 state that the model now addresses the Commission's
7 previous concerns about minimum -- about the Hatfield
8 model not meeting the minimum spanning tree algorithm,
9 correct?

10 A. Yes.

11 CHAIRWOMAN SHOWALTER: Hold on, you're on
12 page 6 of 1056?

13 MS. RONIS: Yes, I am, starting on line 7
14 through line 10.

15 CHAIRWOMAN SHOWALTER: Where it says one of
16 the changes?

17 MS. RONIS: Yes.

18 CHAIRWOMAN SHOWALTER: All right, thank you.

19 BY MS. RONIS:

20 Q. Now could you tell me what you did
21 specifically before you filed your testimony
22 recommending the Hatfield model to investigate whether
23 in fact the new Hatfield approach to customer locations
24 corrected the problem the Commission previously
25 identified?

1017

1 A. Yes, I reviewed the documentation for the
2 model that was presented, and in there it explained that
3 it had corrected the issue.

4 Q. Did you do any sensitivity analyses to
5 compare version 5.3 to the version previously submitted
6 to the Commission?

7 A. No.

8 Q. What did you do to satisfy yourself that
9 Hatfield version 5.3's new approach to customer
10 locations didn't create new problems?

11 A. Well, in running the model and looking at the
12 outputs, examining the outputs, I didn't observe any
13 dramatic changes that would cause me concern. And the
14 other factor about this, whenever you talk about issues
15 involving whether there is sufficient plant out there,
16 you have to remember that Staff's version of the model
17 has the loop length adjustment, which is sort of the
18 great equalizer. So if it turns out that loop lengths
19 are less than actuals in the model, that the model
20 produces, those investments are all going to be scaled
21 up anyway to produce -- so that the model produces in
22 terms of cost at least the cost associated with the
23 average loop length for each wire center. So in terms
24 of importance, that's why I didn't undertake any
25 in-depth analysis of the changes.

1018

1 Q. But you did find some problems with the
2 clustering data produced by Hatfield, correct?

3 A. When I did the analysis of the Qwest wire
4 centers' cluster data, I found problems with clusters
5 not being in the correct location, either -- that is
6 that by the correct location I mean I matched the census
7 block groups, which is how the clusters are identified,
8 by census block group, the one they belong in, so I
9 plotted those and compared the clusters to see if they
10 were in the census block group they were assigned to.

11 Q. And I will be asking you a few more questions
12 about that later, but let me finish this line for a
13 minute.

14 At lines 14 through 17 of the same exhibit on
15 page 6, you state here that you didn't adjust the
16 switching cost produced by the Hatfield model as was
17 previously ordered by the Commission in the Eighth
18 Supplemental Order because the new version of the
19 Hatfield model filed in this proceeding used new
20 switching data from an FCC report. Is that a fair
21 characterization of your testimony?

22 A. Yes.

23 Q. And on line 14 you refer to reviewing the
24 model documentation, correct?

25 A. Correct.

1019

1 Q. What did you do to satisfy yourself that this
2 switching data accurately reflects Verizon's forward
3 looking switching costs?

4 A. I did not specifically examine Verizon's
5 forward looking costs, the switching costs per se. I
6 don't know that -- why they would be any different from
7 Qwest's say. The model's a generic model. It's not a
8 company specific model other than in the specific data
9 that you said is the same inputs are used generically
10 between all companies, at least for the most part,
11 including switches. What -- the reason I didn't conduct
12 a -- any more of an in-depth examination is that these
13 investment values, as my testimony says, had been, for
14 switches, had been adopted by the FCC, and so I assumed
15 there that they had underwent some scrutiny at the FCC
16 level before their adoption.

17 Q. Do you know when the FCC adopted those
18 switching inputs?

19 A. No.

20 Q. Do you know how old the switching data used
21 in that FCC report is?

22 A. I believe I read a criticism of it in some of
23 the testimony that was filed in this proceeding, but I
24 don't recall, possibly 1998.

25 Q. Do you know whether the FCC switching data

1020

1 includes all new switch discounts or reflects all new
2 switch discounts or a mix of new and growth discounts?

3 A. No, I do not.

4 Q. Now on page 8 of the same exhibit, lines 14
5 through 18, now you state here that you did not make the
6 special access adjustment previously ordered by the
7 Commission to the Hatfield model because you believe the
8 new version of the Hatfield model explicitly models high
9 capacity or special access loops. Is that a fair
10 characterization of your testimony?

11 A. Yes.

12 Q. And again, what did you do to investigate
13 whether, in fact, Hatfield is accurately modeling the
14 cost of high capacity loops?

15 A. When I received the new 5.3, I reviewed the
16 calculations in the model that had been added to account
17 for the high capacity loops, looked at the formulas,
18 traced some of the formulas through, and tried to gain
19 an understanding about how that -- how the high capacity
20 loops were modeled.

21 Q. Now I'm going to turn to Exhibit 1065.

22 A. I have that.

23 Q. I'm going to refer you to page 6 and starting
24 on line 6.

25 A. Yes, I see that.

1021

1 Q. Now this question and answer in your
2 testimony is addressing Verizon witness Mr. Murphy's
3 criticisms of the way the Hatfield model models high
4 capacity loops, correct?

5 A. Yes.

6 Q. So you have reviewed Mr. Murphy's testimony
7 on this subject?

8 A. Yes, this is a response to some of his, well,
9 his statement he made regarding my prior testimony.

10 Q. Since you have -- since you reviewed
11 Mr. Murphy's testimony on this subject of how the
12 Hatfield model models high capacity loops, have you gone
13 to the Hatfield model to investigate for yourself
14 whether, in fact, the Hatfield model includes all the
15 proper costs?

16 A. No, I didn't understand that to be the point
17 of his testimony here. My understanding from reading
18 his testimony was that the -- he couldn't determine how
19 many of the high capacity loops belonged in one category
20 versus another and that there was an outstanding data
21 request to AT&T about that, so it appeared to me he
22 didn't have all of the information himself to make -- to
23 come to a conclusion about.

24 Q. Do you have an understanding of how the
25 Hatfield model includes the high capacity, and

1022

1 specifically DS1 versus the DS3 versus OCN?

2 A. A general understanding.

3 Q. Did you issue any data request to AT&T to
4 investigate Mr. Murphy's claims?

5 A. No.

6 Q. Let's turn to the Hatfield model's clustering
7 algorithms. I'm just going to ask you some general
8 questions first. Do you agree that the cost of
9 determining where to place -- the cost of placing plant
10 and how much plant to put in is a material part of loop
11 costs?

12 A. Yes.

13 Q. And is it fair to say at a high level the
14 Hatfield model determines these costs at least in part
15 through its clustering algorithms?

16 A. Yes, I think you could say that.

17 Q. And in the previous proceeding and in the
18 Eighth Supplemental Order, AT&T had a different process
19 for, for example, locating customers, and that process
20 was criticized in the Eighth Supplemental Order; is that
21 fair?

22 A. I believe so.

23 Q. And AT&T has attempted to address these flaws
24 by coming up with a new method of placing plant,
25 correct?

1023

1 A. I don't know that I agree with the term
2 flaws, but they developed a new clustering method. I
3 believe the first time I seen it was in January of this
4 year.

5 Q. And the customer locations are determined in
6 part by a third party called TNS, correct?

7 A. Yes, I understand that.

8 Q. Have you asked AT&T for access to the TNS
9 source code?

10 A. No.

11 Q. So you haven't reviewed the TNS source code?

12 A. That's correct.

13 Q. Now on page 12, again back to your rebuttal
14 Exhibit 1065, on page 12, I'm going to start on line 10
15 and going over to page 13, here you're discussing
16 Verizon's criticisms of the Hatfield cluster data,
17 correct?

18 A. Yes.

19 Q. And you criticize Mr. Dippon for not
20 quantifying the error; is that correct?

21 A. For pointing out what I would say selective
22 results, which I don't believe gives the Commission a
23 lot of help in determining to what extent there are
24 errors. All models will have what people would term
25 errors in them or less preferred ways of building plant,

1024

1 and I believe my criticism was about my sense that it
2 was a fairly one sided kind of an analysis.

3 Q. But on page 12, line 18, you state here that
4 you do agree that the Hatfield cluster data does produce
5 errors; that's what you state, correct, line 18?

6 A. I don't believe that's quite right. When you
7 plot the cluster data onto -- in a GIS software, you
8 will find that some of the clusters are not properly
9 located.

10 Q. So again, you state starting on line 17 that
11 in performing that analysis Staff found that two types
12 of errors could occur with the clustered data. Have I
13 read that correctly?

14 A. Yes, that's correct.

15 Q. Now have you attempted to quantify the
16 results of those errors?

17 A. I did for the wire centers that I studied in
18 the analysis in my earlier testimony for the Aberdeen
19 wire center where I found approximately 16 clusters
20 misplaced, and I corrected all those by adjusting the
21 radial distance, and then recalculated the cost using
22 the new cluster file that I had created, which produced
23 a slightly lower cost for the Aberdeen wire center.

24 Q. But you haven't done it with respect to all
25 the wire centers?

1025

1 A. That's correct.

2 Q. And could you repeat how specifically you
3 would correct the error?

4 A. There's a measuring tool in the software that
5 allowed me to measure the radial distance from the wire
6 center to the correct location, to the correct census
7 block group, and I could -- I had an overlay of streets
8 and roads in the areas that I could use to determine
9 where within the census block group the cluster
10 belonged, so that it was positioned over roads existing
11 where housing people would be, and marked that distance
12 with a measuring tool, and then changed in the cluster
13 file the radial distance to that distance.

14 Q. And you didn't adjust for any other variables
15 that could result from those changes you made?

16 A. I'm not sure what you mean, any other
17 variables.

18 Q. Any other costs? For example, how it would
19 affect DLC placement by moving the distance you
20 suggested?

21 A. There is potential for that I suspect, but I
22 didn't find large errors in the radial distance. For
23 instance, a radial distance might be 5,000 feet and the
24 new distance might be 7,000, and so I simply updated the
25 distance.

1026

1 Q. So it's your position you would not need
2 access to the TNS source code in order to correct the
3 cluster errors in the Hatfield model?

4 CHAIRWOMAN SHOWALTER: What is TNS?

5 MS. RONIS: It's the company that produces
6 the cluster data or in part, and I actually don't know
7 what it stands for.

8 CHAIRWOMAN SHOWALTER: Okay.

9 MS. RONIS: I'm sure someone here does if we
10 want it for the record.

11 JUDGE MACE: Perhaps Mr. Spinks does.

12 CHAIRWOMAN SHOWALTER: That's okay, as long
13 as I know it's a company name.

14 MR. KOPTA: Taylor Nelson Sofries, Taylor,
15 T-A-Y-L-O-R, Nelson, N-E-L-S-O-N, Sofries,
16 S-O-F-R-I-E-S.

17 CHAIRWOMAN SHOWALTER: Thank you. Just every
18 time there's an acronym, if I don't know it, it could
19 mean anything.

20 MR. KOPTA: We don't use acronyms in this
21 industry.

22 BY MS. RONIS:

23 Q. I'm sorry, Mr. Spinks, did you answer, I
24 wasn't sure?

25 A. I don't think I did.

1027

1 JUDGE MACE: Do you remember the question?

2 THE WITNESS: No.

3 JUDGE MACE: Could you repeat it, please.

4 BY MS. RONIS:

5 Q. So its' your position that in order to
6 correct the cluster data errors in the Hatfield model,
7 you do not need access to the TNS source code?

8 A. I think it would depend on the magnitude of
9 the adjustment that needed to be made. If the
10 adjustment were so large that additional equipment was
11 somehow necessary, although I -- and I don't know -- I
12 don't have a specific case in mind, but I can see the
13 possibility through your question that it's possible
14 that some other changes may be necessary. But for the
15 magnitude of the errors that I found, which went both
16 directions, I didn't think that it was necessary.

17 Q. Let's turn to Exhibit 1062, your response
18 testimony.

19 A. I have that.

20 Q. Refer you to page 6, and lines 4 through 19.

21 A. Yes, I see that.

22 Q. Now here you are criticizing Verizon's loop
23 module for considering and reflecting actual plant
24 locations instead of a more what you call efficient
25 network design?

1028

1 A. Well, it's more than -- well, when you say
2 plant locations, yeah, as long as we understand that
3 includes the distribution terminal, SAI's, DLC's, and
4 existing cable routes.

5 Q. So it's your opinion that the TELRIC rules
6 require that a brand new loop network be configured?

7 A. No.

8 Q. What is your position?

9 A. The use of the actual locations for all this
10 equipment, as I say in my testimony, and -- well, it
11 creates more of a replacement cost type of a model than
12 TELRIC, but I don't believe that it falls squarely
13 outside the bounds of TELRIC. It's less efficient than
14 it could be, and in that sense I have a problem with
15 that.

16 Q. Where in the Hatfield model does it account
17 for, for example, constructing and obtaining all new
18 rights of way for the newly designed network?

19 A. I don't believe it does, and I don't know
20 that that's a necessary -- necessary in the cost model
21 in order to produce a TELRIC cost.

22 Q. Where in the Hatfield model does it reflect
23 that if a brand new network were constructed from
24 scratch, suppliers of plant would be capacity
25 constrained and possibly, I'm not saying they will,

1029

1 possibly result in higher costs?

2 A. I don't believe the model does those things.

3 Q. I'm going to refer you to the same exhibit,
4 page 7.

5 A. Yes.

6 Q. Lines 4 through 7.

7 A. I see that.

8 Q. The question is:

9 Are all of the Verizon cost algorithms
10 viewable?

11 And you state:

12 No, in response to Staff Data Request

13 Number 18, Verizon indicated that

14 certain information such as engineering

15 and construction standards is not

16 accessible in the model.

17 Have I read that correctly?

18 A. Yes.

19 Q. Where in the Hatfield model can the user view
20 the engineering and construction standards?

21 A. I'm not certain, I don't know.

22 Q. Now in your May 10th supplemental testimony,
23 which is again Exhibit 1056T, you propose for the two
24 wire loop a statewide average rate of \$10.09, correct?

25 JUDGE MACE: What page are you on? I see

1030

1 something on page 13 that may be what you're referring
2 to.

3 Q. Page 13, line 18.

4 A. Yes, I see that.

5 Q. Now in previous versions of your testimony
6 you had proposed a statewide average for the two wire
7 loop of \$17 and --

8 MS. SMITH: I guess I would object to the
9 question, and I apologize for interrupting the question,
10 but the testimony in prior versions isn't relevant.
11 We're not offering any testimony in prior versions.
12 We're offering the costs and the recommendations that
13 Mr. Spinks makes at -- revised as of May 10th.

14 JUDGE MACE: Ms. Ronis.

15 MS. RONIS: I mean the fact that he has
16 drastically reduced the rate over previous versions I
17 think is impeachment, and I think Verizon should be
18 permitted to explore why that happened. So I don't
19 think we can erase the fact that there's previous
20 proposals out there that are much higher than his
21 current proposal.

22 MS. SMITH: And, Your Honor --

23 MS. RONIS: And without explaining why it
24 changed.

25 MS. SMITH: And again I apologize for the

1031

1 interruption, I thought Ms. Ronis was finished.

2 There is no impeachment, because there is no
3 prior sworn testimony. Mr. Spinks made some changes to
4 his recommendation, and I would imagine that that's done
5 by all witnesses who testify in these dockets. Some of
6 it finds its way into pre-filed testimony because of our
7 filing deadlines, some of it does not. So we are
8 proposing only those costs recommended by Mr. Spinks in
9 May 10th, not by the costs he may have per -- he may
10 have pre-filed in earlier testimony but later revised as
11 a result of further analysis. Of course Mr. Spinks is
12 subject to cross-examination on why he has testified
13 that the two wire analog loop cost is \$10.09, but he
14 hasn't testified to any other rate as of this time.

15 JUDGE MACE: I think you can explore, as
16 Ms. Smith suggested, that you can explore the basis for
17 his recommendation of \$10.09, but at this point I'm not
18 going to allow you to do that in comparison with the
19 prior number.

20 MS. RONIS: Let me ask this question, and you
21 tell me if it's improper.

22 JUDGE MACE: Well, it's not for me to tell
23 you that it's improper.

24 MS. RONIS: Well in --

25 JUDGE MACE: In the terms of what I just

1032

1 said.

2 MS. RONIS: Given your instruction, yes.

3 BY MS. RONIS:

4 Q. Without reference to any previously filed
5 testimony, did your calculations of Verizon's two wire
6 loop statewide average change, in other words did you
7 have previous versions that you calculated that led to
8 different results?

9 MS. SMITH: Objection, this is the same
10 objection to the same question. Mr. Spinks probably did
11 a lot of things trying to come up with a recommendation,
12 but his recommendation is \$10.09. There may have been
13 recommendations that were widely different, up, down,
14 wherever, that didn't make it into the testimony, and
15 the testimony says \$10.09, so any exploration of changes
16 is improper.

17 JUDGE MACE: Ms. Ronis, do you have anything
18 to add?

19 MS. RONIS: Again, I think any prior
20 calculations and reasons for those calculations is
21 entirely appropriate cross-examination.

22 JUDGE MACE: Okay.

23 (Discussion on the Bench.)

24 MS. RONIS: Your Honor, I will withdraw the
25 question. The revised -- but I do want to make it clear

1033

1 so there's no allegation of impropriety here, the
2 version that is on the record shows a strikeout of the
3 \$16.30, and we would want to make that point in our
4 brief. So I will withdraw questions to Mr. Spinks, but
5 we will --

6 MS. SMITH: And by point of that, our rules
7 require that. Our rules require us to make the changes
8 in legislative format, so I assume when people get their
9 hard copies they don't have to go through themselves and
10 compare it. The rule is set out to make it convenient
11 for those changes to be found. It is not intended to
12 make that part of the record. So we, of course, would
13 object to that, because we haven't offered it.

14 CHAIRWOMAN SHOWALTER: Yeah, we have
15 discussed this particular question before. The
16 testimony that Mr. Spinks has now filed does not include
17 the strike through. I mean that is -- those are not his
18 testimony, that's not his testimony as filed.

19 MS. RONIS: Can I also note that, you know,
20 Verizon and other parties made corrections, and they go
21 version to version, and they just update their
22 testimony, they don't -- we don't just pretend it didn't
23 happen and then just file the more recent version, so --

24 JUDGE MACE: Well, we have an objection
25 before us, and we have to address that. I don't know

1034

1 that we have addressed this in the context of any
2 objections about updates that Verizon may have made, and
3 so we are confronted with a question at this point and
4 are attempting to deal with it.

5 MS. SMITH: And simply by proposing the
6 strike through legislative format to the testimony, that
7 is Staff's counsel's interpretation of the Commission's
8 rule when you do that, and, you know, if perhaps we have
9 misinterpreted the rule to show it in legislative
10 format, that has nothing to do with the fact that we're
11 not offering that testimony that has been stricken on
12 the pages.

13 CHAIRWOMAN SHOWALTER: Well, the testimony
14 that Mr. Spinks has filed does not include the strike
15 through, so then the question is --

16 MS. RONIS: Do we still withdraw the
17 question?

18 CHAIRWOMAN SHOWALTER: Right.

19 MS. RONIS: Yes, we will withdraw the
20 question.

21 CHAIRWOMAN SHOWALTER: All right, thank you.

22 BY MS. RONIS:

23 Q. Mr. Spinks, Verizon held a training session
24 on its model last July of 2003, correct?

25 A. Yes.

1035

1 Q. And you attended?

2 A. Yes.

3 Q. Isn't that correct?

4 A. Yes.

5 Q. And Verizon offered at that meeting to
6 provide you additional training on Verizon's model;
7 isn't that correct?

8 A. I don't recall.

9 Q. Over the course of the last year, do you
10 recall that Verizon has offered to make additional
11 training available to you?

12 A. They may have, I don't deny it, it's just I
13 don't recall any specific request that was made. I
14 recall the continuing nature of the, for instance, the
15 help desk availability and the like.

16 Q. And you haven't asked Verizon for any
17 additional training since July of 2003, correct?

18 A. Well, I didn't ask for the July 2003, they
19 offered it and I accepted it, yes.

20 Q. Have you asked for any additional training
21 since then?

22 A. No.

23 Q. Did you attend all of the tutorial yesterday
24 provided to Dr. Gabel?

25 A. Not all of it, but parts of it.

1036

1 Q. Now you mentioned the help desk, it's your
2 understanding that Verizon has established a help desk
3 to answer general questions about its cost model filed
4 in this proceeding, correct?

5 A. My understanding of the help desk is if you
6 have a problem running the model, you could call them
7 about it if it crashed or there was some sort of an
8 error message or that, they could help with that.

9 Q. And how many times have you called the help
10 desk?

11 A. I have not called the help desk.

12 Q. Anyone else from Staff?

13 A. I'm not certain.

14 Q. And the final line of cross here, have you
15 reviewed all of Verizon's testimony filed in this
16 proceeding?

17 A. I'm not certain. I have certainly reviewed
18 the testimony that I have responded to.

19 Q. Have you reviewed the cost manuals?

20 A. Some of them. The -- there were ten CD ROM's
21 provided with the direct filing, and I examined -- I
22 believe there were four or five of them that dealt
23 explicitly with the model and various backup support
24 files, and I went through many of those.

25 Q. Can you turn to Exhibit 1062, page 8.

1037

1 A. Yes, I have that.

2 Q. And referring you to lines 4 through 7, this
3 testimony states at line 4:

4 Despite these prior Commission orders,
5 including prior directives aimed
6 directly at Verizon's cost model,
7 Verizon has failed to include in VzCost
8 the ability to adjust costs based on
9 loop length differences or to alter
10 structure sharing assumptions.

11 Have I read that correctly?

12 A. I see that, yes.

13 Q. Did you send Verizon any data requests asking
14 whether these two assumptions, the structure sharing
15 assumption and the loop length assumption, could be
16 changed in Verizon's model?

17 A. No, I didn't send a data request. I had
18 asked during my initial training about them.

19 Q. Can you please return to attachment, sorry,
20 Exhibit 226, which is Verizon's supplemental direct, and
21 I provided you a copy of that this morning.

22 JUDGE MACE: Exhibit 226?

23 MS. RONIS: 226.

24 JUDGE MACE: Which witness was that?

25 MS. RONIS: It's the Verizon panel, the

1038

1 supplemental direct filed in January of 2004.

2 A. Yes, I see that.

3 JUDGE MACE: If you can just hold on until we
4 get to the cite.

5 It's marked SRP-1T as an internal
6 designation. Is everybody there?

7 Go ahead.

8 BY MS. RONIS:

9 Q. And I'm going to refer you to Attachment B as
10 in boy, starting with page 18.

11 JUDGE MACE: Is that the VzLoop cost manual
12 version 7.0?

13 MS. RONIS: Yes, starts with Section 1,
14 Introduction.

15 JUDGE MACE: Page 18, thank you.

16 MS. SMITH: May I just ask a question to
17 clarify, is the Attachment B a separate exhibit number?

18 MS. RONIS: No, I will verify, but I believe
19 it's just part of Exhibit 226.

20 CHAIRWOMAN SHOWALTER: On page 18 is there a
21 bold title labeled 6.5, buried fiber and copper cables?

22 MS. RONIS: Yes, there is.

23 And, Mr. Spinks, I'm going to refer you first
24 to the little diagram.

25 Is everyone on the same page?

1039

1 JUDGE MACE: Yes, thank you.

2 BY MS. RONIS:

3 Q. Okay, and you will see a diagram in the
4 middle of the page. One says total requires poles, the
5 bottom one says Verizon poles. Do you see that?

6 A. Yes, I do.

7 Q. Now the diagram also talks about -- has a
8 label Verizon non-shared poles and Verizon shared poles;
9 do you see that?

10 A. Yes.

11 Q. And then this cost manual then says:
12 The percent shared specified with SA
13 variable in options table.

14 Do you see that?

15 A. Yes.

16 Q. Now before you filed your testimony -- strike
17 that.

18 Had you reviewed this cost manual before you
19 filed your rebuttal testimony?

20 A. No, but I did -- well, no.

21 Q. Now I'm going to refer you to page 19.

22 JUDGE MACE: Of the --

23 Q. Of the same exhibit.

24 JUDGE MACE: Attachment B.

25 Q. Attachment B, and refer you to the fourth

1040

1 full paragraph that starts, the amount of trenching.

2 A. I see that.

3 Q. The first sentence of that paragraph states:

4 The amount of trenching that is shared

5 is determined by two variables in the

6 options table.

7 Did I read that correctly?

8 A. Yes.

9 Q. And finally, refer you to page 20 of the same
10 exhibit, Attachment B, to the last paragraph, and that
11 states:

12 Sharing of conduit systems is modeled

13 based on the variables SC and SCU in the

14 options table.

15 Did I read that correctly?

16 A. Yes.

17 Q. Have you ever gone to these tables referenced
18 on pages 18, 19, and 20 to attempt to vary the structure
19 sharing assumptions?

20 A. No, I, again, I was acting on information I
21 thought I had received orally from the company that they
22 did not -- that there was not a mechanism to make either
23 loop length adjustments or structure sharing beyond the
24 poles. I knew that the poles could be altered some.

25 And so I have not examined these, and I'm not certain

1041

1 whether they do or how they work.

2 JUDGE MACE: Ms. Ronis, how much cross do you
3 have left?

4 MS. RONIS: A minute, one minute.

5 JUDGE MACE: Go ahead.

6 BY MS. RONIS:

7 Q. I can refer you to the page number in
8 Verizon's rebuttal testimony if you need it, but do you
9 recall that Verizon has explained in its recent
10 testimony how to adjust the loop lengths?

11 A. Yes, I did see that, and so I knew that it
12 had -- I thought that perhaps in the January version of
13 the changes that Verizon had introduced that ability to
14 do the loop length adjustment.

15 Q. And your response testimony, Exhibit 1062, in
16 which we just referred to those pages, page 8, lines 4
17 through 7, was filed April 20th, 2004, correct?

18 A. Yes.

19 Q. And in that testimony, again you state the
20 user is not able to adjust structure sharing and loop
21 length assumptions, correct?

22 A. That's correct, that testimony was based on
23 my understanding again coming out of the initial
24 training.

25 MS. RONIS: I have no further questions.

1042

1 JUDGE MACE: We'll take a break for 15
2 minutes at this time.

3 (Recess taken.)

4 JUDGE MACE: Ms. Ronis, your
5 cross-examination is done; is that right?

6 MS. RONIS: Yes, it is.

7 JUDGE MACE: Mr. Kopta has no
8 cross-examination?

9 MR. KOPTA: That's right.

10 JUDGE MACE: Ms. Frame?

11 MS. FRAME: No.

12 JUDGE MACE: And so, Dr. Gabel.

13

14 E X A M I N A T I O N

15 BY DR. GABEL:

16 Q. Good morning, Mr. Spinks.

17 A. Good morning.

18 Q. Mr. Spinks, I would like to begin with the
19 topic of structure sharing. Am I correct that in this
20 proceeding you have recommended the same structure
21 sharing percentages that you recommended in the first
22 cost docket, UT-960369?

23 A. Yes, that's correct.

24 Q. For the record, would you explain how you
25 developed those sharing percentages?

1043

1 A. To the extent I can recall. There was a team
2 consisting of myself and two -- an outside plant
3 engineer from the Staff and another engineer, there were
4 two engineers, and we surveyed each of the density
5 zones. And when I say survey, I don't mean literally,
6 but we considered each of the density zones separately
7 and identified the number of potential providers of
8 structure sharing, for structure sharing, and by density
9 zone, and based on those numbers developed percentages
10 of structure sharing that we considered to be likely to
11 exist in a forward looking network, if you will.

12 Q. So your recommendations were based upon what
13 was likely to exist rather than what does exist?

14 A. That's correct. That was the -- in the first
15 generic cost case it was the same arguments. The ILEC's
16 argued to use actual structure sharing. AT&T argued to
17 use this -- their version of structure sharing, which is
18 still the same today as it was then. And the Staff
19 numbers came out somewhere in between those two.

20 Q. When you looked at what would likely occur,
21 did you include in the type of utility that might share
22 structure with Verizon cable companies?

23 A. Yes, I believe that they were in there.

24 Q. And if there -- let's -- I would like you to
25 assume the following hypothetical example. If there was

1044

1 a telephone pole that had two cables on it, one cable
2 being a Verizon telephone cable and a second cable being
3 a coaxial cable of the cable television company, would
4 you assume that each of those two companies would be
5 equally responsible for the cost of the pole?

6 A. Yes, I believe that that was the way we did
7 the calculation.

8 Q. Are you familiar with testimony in this
9 proceeding which stated that cable companies due to
10 federal regulations pay a small portion of the cost of
11 hanging facilities on the pole; did you see that
12 testimony?

13 A. Yes, I did.

14 Q. Do you, after reading that testimony, does
15 that give you reason to reconsider your initial
16 recommendation about sharing the cost of structure
17 between a cable company and Verizon?

18 A. No. Cable companies played a very small
19 part. I believe we had identified six or eight
20 potential, depending on the type of structure, there
21 were anywhere from six to eight providers, potential
22 providers. For instance, maybe with underground it
23 might include -- it might have included natural gas
24 lines or other types of providers, and so the telephone
25 company was only one of that group. So if there were

1045

1 four potential providers I think with poles, you would
2 have electric companies, cable, I'm not sure what else
3 was in there now, but the telephone company counted as
4 one. So if there was -- in rural areas, for instance, I
5 think our structure sharing percentages are like 87%,
6 something like that.

7 And I actually did at the beginning of this
8 proceeding review that and consider some changes now
9 that I think of it, and that was based on reviewing
10 Minnesota and Colorado and Arizona structure sharing
11 orders to see where other states were coming out on this
12 issue. And if I had recommended changes to it, in the
13 end I didn't, but if I had, we would have raised the
14 percentages to 100% in the zero to five areas and
15 actually lowered some of them in the mid range density
16 zones from the 62% down to more like 55% for I believe
17 buried and underground.

18 JUDGE MACE: I'm sorry, I didn't hear the
19 last part.

20 THE WITNESS: Buried and underground.

21 JUDGE MACE: Thank you.

22 A. And so they did -- we did review that, and in
23 the -- but in the end we decided to stay with what we
24 had.

25 BY DR. GABEL:

1046

1 Q. Okay, Mr. Spinks, I would now like to ask you
2 a few questions regarding your switching
3 recommendations. In Verizon's reply testimony, they
4 addressed your recommendations. Did you review
5 Verizon's reply testimony of April 20th?

6 A. I did, but I don't recall the specific
7 concerns that they may have expressed about the
8 switching.

9 JUDGE MACE: Exhibit 301 is the switching
10 panel, Verizon switching panel, that was filed April
11 20th.

12 Q. Mr. Spinks, do you have a copy of that? Or
13 let me say -- let me just describe to you the testimony
14 I have in mind, maybe you remember. And if not, we'll
15 get you a copy of the testimony. But at page 17, lines
16 12 to 13, that panel notes that two switches that varied
17 by only two lines have a \$3.98 cost difference. Do you
18 recall that testimony?

19 A. Yes, yes, I do actually.

20 Q. Okay. Are you familiar -- could you explain
21 -- is that a correct representation of your workpapers?

22 A. Yeah, well, the costs showed what they
23 showed, and I didn't -- well, I didn't go back and
24 verify the numbers. I had seen similar spread between
25 the switching costs in the -- for the various wire

1047

1 centers that I -- when I looked at that, I thought that
2 it was due to probably two different factors at work.
3 One is the zones for the switching were not based on
4 their relative costs, but rather they were tied in to
5 the loop costs. Whatever wire centers were in zone 1
6 for loops is where I put the switching costs for those
7 same wire centers. The purpose of doing that was to --
8 so when we talked about zone 1 costs, whether it be
9 loops or switching, it would be -- they would always be
10 the same wire centers, so that was for sort of
11 administrative reasons. And the second reason why I
12 thought that might be different would be relative usage
13 of the switch.

14 Q. Also like to ask you to comment on some
15 testimony from the Verizon panel rebuttal testimony of
16 May 12th. I do have the testimony, and I can present it
17 to you if you would like to see it. At page 20,
18 starting at page 27, the Verizon panel has --

19 CHAIRWOMAN SHOWALTER: What exhibit?

20 DR. GABEL: I'm sorry, Exhibit 228.

21 CHAIRWOMAN SHOWALTER: Page?

22 DR. GABEL: 27.

23 BY DR. GABEL:

24 Q. At this portion of the --

25 JUDGE MACE: Hold on just a second.

1048

1 Go ahead.

2 Q. At this portion of Verizon's rebuttal
3 testimony, the company provides some data on loop length
4 comparisons with the Verizon model and the Hatfield
5 model and actual loop lengths. After reviewing this
6 testimony, did you -- did it make you feel more
7 confident about the Verizon model, or do your -- does
8 your initial recommendation still hold that you believe
9 that the Commission should adopt the Hatfield model?

10 A. Well, my thought when I seen this testimony
11 was I shouldn't have been surprised that the loop
12 lengths, model loop lengths, would turn out to be close
13 to the -- I think they're 3% on average or 6% on, no, 3%
14 over the actuals. But the thought I had was that in a
15 forward looking network, it's likely that loop,
16 remodeled loop lengths would turn out to be lower, maybe
17 in the range of 5% to 10% less rather than equal to or
18 over. I believe that's likely certainly in some wire
19 centers because of the way plant was historically built
20 versus how it would be rebuilt in a forward looking
21 network where you're locating a centroid in the center
22 of each cluster versus the way it may actually be laid
23 out where the SAI is maybe on the edge of a serving area
24 instead of in the center. So there's reason to believe
25 they should be less, could be less certainly in a

1049

1 forward looking network.

2 Insofar as the recommendation to use the HAI
3 goes, I have recommended that pretty consistently over
4 the eight years we have been having these proceedings.
5 I think the model offers a lot of good -- has a lot of
6 good going for it. If the Verizon model can be adjusted
7 to, for instance, do the structure sharing and the loop
8 length adjustments, I think that goes a long way towards
9 making it more palatable, but it -- I don't know whether
10 you can take out of the model the sorts of what I think
11 about as being built in where I think Mr. Turner from
12 AT&T, I read some testimony where, well, I had addressed
13 it conceptually, I think he showed where it actually
14 occurs, there are four or five SAI's in a very closely
15 located to one another, for example, which is one of the
16 results you get when you try to essentially duplicate
17 your existing network. If there were some way to get
18 those out of there, then you might find some convergence
19 in the costs that the two models produce if you can put
20 in uniform inputs between the two of them.

21 Q. I would like to ask you to turn, Mr. Spinks,
22 to Exhibit 1062. This is your response testimony of
23 April 20th.

24 A. I have that.

25 Q. Page 9, line 9, you state that the model

1050

1 contains hard wired programming for assumptions. Is
2 this -- in addition to structure sharing, is there
3 anything else in the model which you can identify as
4 being hard wired into the model?

5 A. What I had in mind when I said that was the
6 structure sharing. At the time I wrote that, I had read
7 that they could -- when -- do the loop length adjustment
8 at that point, so I thought the only thing left was the
9 -- was the structure sharing not being able to be
10 adjusted.

11 Q. I think I'm going to end with an open ended
12 question to you, which is different than the open ended
13 question I have given other witnesses, and this is as a
14 cost analyst, the Commission has before it two models,
15 one which is the Verizon model assumes that customers
16 continue to be served from the existing pedestal, and
17 the other is the Hatfield model that doesn't make that
18 assumption. Is that your understanding of one type of a
19 difference between the two models?

20 A. I think that's yeah, one way of expressing
21 it, yes.

22 Q. Could you just explain why as a cost analyst
23 you might believe one methodology is better than the
24 other, one methodology working with the existing
25 location of pedestals and serving area interfaces versus

1051

1 the assumption that the only thing that is fixed is the
2 existing location of the central office?

3 A. Right, I -- both models are I believe TELRIC
4 compliant in the sense that they -- there's no real
5 obvious deviations from the FCC's criteria for what
6 TELRIC is. Staff prefers the or views TELRIC with the
7 emphasis on the term long run, and that's a economic
8 standard, if you will, that says in the long run all
9 inputs can vary. If you're going to have an economic
10 cost model that you're going to term a long run economic
11 cost model, then you should let those inputs vary and
12 see what the cost is. That is -- it's -- and the other
13 point is that we would emphasize efficiency. Between
14 two models, the one that's more efficient would -- that
15 are otherwise ceteris paribus, the same, the one that's
16 more efficient would be preferred. That's the exercise
17 of long run costing.

18 DR. GABEL: Thank you.

19

20 E X A M I N A T I O N

21 BY CHAIRWOMAN SHOWALTER:

22 Q. Well, I would like to follow up on that
23 answer right there, because I had somewhat taken from
24 Dr. Blackmon's testimony that if it were up to Staff on
25 its own, Staff would not be recommending TELRIC per se,

1052

1 and but yet the FCC has ordered this, so this is what we
2 do. Now your answer just now indicated to my lay ears
3 that you were emphasizing the long run aspect and the
4 efficiency aspect, which to my ears sounds like more
5 TELRIC than perhaps FCC requires, in other words more on
6 the theoretical end of TELRIC than FCC is actually
7 requiring, whereas I heard Dr. Blackmon, I could be
8 wrong, to take issue with TELRIC if he could, so.

9 A. Right.

10 Q. I would have thought that Dr. Blackmon anyway
11 would be sticking to the more let's say realistic side
12 of what's TELRIC permissible or the ground, the real
13 world side of what's TELRIC permissible in the FCC's
14 eyes.

15 A. My response was couched in the context of
16 living within what the FCC has set out for us, so that
17 that was really the context for my responses. We have
18 to live in this TELRIC world, we have no choice. Given
19 that and you have two models, which would you choose.

20 Q. Right.

21 A. Dr. Blackmon's response went to if Staff
22 could have its druthers, we may have chosen or pursued a
23 entirely different way of pricing than TELRIC itself.
24 That's to me not inconsistent at all I mean between the
25 two responses. I don't think that he intended to

1053

1 necessarily be -- that we would prefer a model that's
2 more realistic per se. I mean being a Ph.D. economist,
3 he's, you know, the theoretical, theoretically, more
4 theoretically oriented so that -- but I can't say for
5 certain what he had in mind when he gave his response.

6 Q. Well, just but your own response is that even
7 though both models are TELRIC compliant or FCC
8 compliant, in your view you think the Hatfield produces
9 a better result because it ends up with a more efficient
10 answer, with a more efficient answer?

11 A. Yes, that's correct.

12 Q. Is that the same or different than saying
13 it's more theoretical than the Verizon model, that is
14 it's more efficient because it's more theoretical?

15 A. No, I would say it's more efficient because
16 it models a forward looking network that's not tied to
17 the past. And I mentioned in my rebuttal testimony I
18 think that the -- and in response to some testimony from
19 Dr. Tardiff who you will hear from this week who talked
20 about using embedded investment as a measure of the
21 reasonability of the model, and I take that notion to
22 task because public utilities and rate base rate of
23 return regulation in the past have had a tendency, if
24 you will, to overinvest in the network. When I first
25 got into the business we called it the gold plated

1054

1 network, there was a tendency to substitute capital for
2 labor because under rate base rate of return regulation
3 you didn't have the same sorts of risks that you have in
4 competitive markets.

5 Q. Okay, I would like to ask a little bit about
6 how you compare these two models. First, where the
7 models share the same weakness, do you agree that it's a
8 draw?

9 A. Yes.

10 Q. And if they do share the same strength, that
11 would also be a draw?

12 A. Yes.

13 Q. So we should be concentrating, shouldn't we,
14 on the differential strengths and weaknesses of the two
15 models?

16 A. Well, let me try and answer it this way. At
17 the outset of this proceeding what Staff set out to do
18 was to for all three models, you recall Qwest was
19 involved initially in the case, what Staff had tried to
20 -- initially we tried to do was to substitute, to unify
21 the inputs in the model, to use the same inputs. Then
22 when you seen the outputted model, so let's say one says
23 \$10, one says \$15, one says \$20, what you're looking at
24 are purely the differences due to the model themselves
25 the way the network went. If you could make the

1055

1 structure sharing equal, the loop lengths equal, the
2 input prices equal, all you would have left would be the
3 way the model builds the plant that would account for
4 the difference in the price. Unfortunately, for a
5 number of reasons we weren't able to pursue that in the
6 end to make that idea work, that concept work. But I
7 think that that approach would have -- would have given
8 us a pretty good handle on -- and then -- and then
9 choose the model that's most efficient.

10 Q. But how would you know that? Supposing you
11 were able to do that experiment and you had equal
12 identical inputs and you got an output and one said \$10
13 and one said \$16, that would tell you that the
14 difference in those numbers is due to the model, but how
15 would you decide which model produced the better result?

16 A. Well, and that's where at that point you then
17 turn to evaluating the strengths and weaknesses.

18 Q. And on those, let's say talking about inputs
19 first, there's been discussion here about whether or not
20 Verizon's model actually can adjust for both the
21 structural sharing inputs or percentages and loop
22 length, and I'm unclear now whether having had that
23 discussion today you feel that Verizon's model is more
24 adjustable than you originally thought?

25 A. Certainly with respect to loop length

1056

1 adjustments and as I read their rebuttal testimony, it's
2 clear that they have -- that they have performed
3 adjustments for loop length, and so that appears to be a
4 done deal, their model will do that. I was not aware
5 this menu input that's now in the model that's -- that
6 appears to allow for structure sharing, so I have not
7 evaluated and I can't really say whether it can indeed
8 do that. I would say based on -- based on the
9 testimony, it appears that you can make some sort of an
10 adjustment though for the structure now. And the
11 Commission in past cases with models has directed the
12 company to make those sorts of things anyway if the
13 model didn't do it, so in -- by way of Bench request and
14 -- to do the programming to make them do those things.
15 So I think in the end you can -- you can get the model
16 to do that to the extent it didn't, just Staff doesn't
17 have the power to bring that about, we have to evaluate
18 the model as it's given to us.

19 Q. Well, the first question is, does it appear
20 to you now that the Commission through our advisor,
21 Dr. Gabel, will have the ability to try to make that
22 adjustment?

23 A. Yes.

24 Q. If one is able to make those adjustments so
25 that both loop length and structure sharing is

1057

1 adjustable in the Verizon model, is there anything else
2 inherent in the Verizon model as distinct from inputs
3 that you think is a significant problem?

4 A. Yes, that's the what I call the replication
5 of the existing network. That is by using all of the
6 existing locations of equipment wherever it may be,
7 there is I think necessarily some duplicity in the
8 necessary plant, and so it's less efficient in that
9 respect.

10 Q. Okay. And I don't know if you were in the
11 room when I discussed the issue of getting from here to
12 the Capitol, maybe you weren't, okay. The issue was if
13 you take an example of trying to string a line say from
14 between this building and the Capitol, which requires in
15 the real world going down a bank, around a lake, and up
16 another hill, whereas as the crow flies it's about one
17 mile, and around the lake is three miles. Can you tell
18 me how the two models address that problem? Does the
19 Hatfield model, for example, go as the crow flies, or
20 does it, and for that matter does the Verizon, or does
21 either one recognize you need to go around the lake?

22 A. My understanding is that the VzCost model as
23 it uses existing routes, cable routes, would follow the
24 existing cable route. The route -- that route may go
25 around the lake, or it may use submarine cable and go

1058

1 across the lake and up the hill. But whichever it was,
2 that's what they would use. The HAI model would measure
3 the distance between where you're at and where you want
4 to go and then apply a factor to it that is I think the
5 square root of 2, 1.4 or 1.7, somewhere in there, that
6 is what we call rectilinear routing. So if you want to
7 go from point A to point B, it assumes that you go this
8 way and up, and that creates in most cases I believe
9 sufficient cable to do the job with feeder cable to do
10 the job with.

11 Q. So the HAI model makes an abstract, maybe
12 perhaps it's derived from something empirical, makes a
13 generic factor that builds in some degree of let's call
14 it inefficiency but, you know, not straight line, versus
15 Verizon that is more routed in the actual routes that
16 past or current lines take.

17 A. Correct.

18 Q. Is that correct?

19 A. Yes.

20 Q. And why is the -- why is the HAI model better
21 on this particular score than Verizon's, if it is?

22 A. I don't know that it is. Actually, of all of
23 the -- my criticism of the VzCost is not so much using
24 the existing cable routes. Well, let me come back to
25 that. It's more using the existing DLC and SAI

1059

1 locations that --

2 Q. DLC?

3 A. Digital loop carrier and serving area
4 interface locations.

5 In the Hatfield model, the SAI or DLC is
6 assumed to be placed in the center of the cluster and
7 serves the lines, as I was explaining to Dr. Gabel.
8 That's a more efficient way of provisioning a forward
9 looking network than using the existing which may be on
10 the edge of a serving area. And then you have longer
11 loop lengths as a result.

12 What was I going to come back to?

13 JUDGE MACE: The cable run, the cabling
14 around the lake or across the lake.

15 Q. Well, no, actually, I think you were --

16 A. Right, yeah, the other thing about the using
17 existing cable routes, I think on the one hand that's a
18 good thing in that you can eliminate the right of way
19 issue, you know, this question about right of way. On
20 the other hand, there may be multiple right of ways that
21 you don't need to provision a forward looking network
22 with. So to use every existing right of way and put
23 cable in it just because it's there wouldn't make sense
24 to me. So if they could find a way to use the existing
25 rights of way to get to the locations that would give

1060

1 you the most efficient distribution plant, I think that
2 sort of melding of the two ideas would produce yet a
3 better model.

4 Q. Well, I guess that's a good example, if
5 Verizon's model uses existing rights of way, at least
6 you know they do exist, and you can use them again, I
7 believe.

8 A. Right.

9 Q. If --

10 A. But not every one necessarily.

11 Q. Right. But then in the HAI model, is it the
12 case that there's simply and only a factor applied to a
13 distance to determine the efficient --

14 A. As far as I know.

15 Q. -- cost?

16 A. But AT&T might be in a better position to
17 give a better understanding than I can of it. But in
18 places like Olympia here, there's existing public right
19 of way all over the place, and so the notion that you're
20 going to go from here to the Capitol and there's not
21 going to be right of way available to get you over there
22 given the rectilinear distance, you know, that's a
23 fairly unlikely proposition. It may occur in cases.

24 Q. So you would say that the factor, however
25 it's derived, probably accommodates existing right of

1061

1 way and would use the most efficient one or would use
2 the one that the factor --

3 A. Well --

4 Q. -- would use a factor?

5 A. Yeah, would use a factor that should fit
6 within an existing right of way. And in some cases that
7 rectilinear routing may be longer than you need. In
8 other cases it might be shorter than you need. But it
9 certainly makes sense, especially in the more rural,
10 more urban areas of the network where you have the city
11 blocks and streets all over the place that you're
12 routing the cable down.

13 Q. Okay. In your discussion on structure
14 sharing, which I will call pole sharing in this case,
15 you described for Dr. Gabel how the HAI model or one
16 version of it was originally developed I think, and you
17 said that, I'm sorry, I don't know if it's we're talking
18 about inputs or the model, but in any event you said
19 that a group of engineers projected the number of pole
20 users that would likely be present in any particular
21 situation.

22 A. Correct.

23 Q. And then if, for example, you determined
24 there would be six, then did you assume that each one
25 would pay 1/6 of the cost of the pole?

1062

1 A. Correct.

2 Q. And --

3 A. And there was -- there's more to it than that
4 too, because in rural areas for example where electric
5 is pretty much practically the major utility you're
6 going to share your plant with, it's more likely to be
7 shared in certain areas in certain routes than others.
8 And so there's additional considerations that you have
9 to put into the -- put into the pot if you will in
10 trying to give full -- to get a full understanding of
11 the potential for structure sharing in each of the
12 density areas.

13 Q. Well, I was going to go to how you determine
14 six, but at this point my question was simply, if you
15 arrived at six, did you divide the pole cost by six to
16 determine Verizon's share?

17 A. Well, the -- it would have been one divided
18 by six, whatever that fraction is, that would be the
19 responsibility of the phone company, right.

20 Q. Okay.

21 A. I believe.

22 Q. And in terms of how you got to, you know,
23 six, eight, ten, or --

24 A. Well, I'm sorry, let me -- let me clarify
25 this. We would have identified six potential providers,

1063

1 and of that we went through them and we said, well, in
2 this density zone you're really only going to have two
3 or three, see, and that's what led to the percentages.
4 For instance, there might be eight potential providers,
5 but in reality there's only two that you're going to --
6 that it's likely where you're going to see sharing. And
7 so that would have produced the -- a much higher
8 percentage of the responsibility for the plant for the
9 ILEC than in cases where you had three providers period
10 and you expected all three of them to be in most of the
11 places. So in that case, you would have a 33% sharing.
12 In the latter case you would have 87% would be the phone
13 company responsibility.

14 Q. So you first identified potential sharers but
15 then made another judgment as to how many --

16 A. Of those --

17 Q. -- actual you were going to assume in the
18 model?

19 A. Yeah, when it was reasonable to assume in a
20 forward looking model considering also ordinances that
21 cities have on sharing and the like. They require now
22 that companies consult with each other when they're
23 going to go in somewhere to put in plant so that they're
24 creating as we go forward we're seeing I think more
25 opportunities for companies to share.

1064

1 Q. In this exercise you went through, in the
2 urban areas say, did you assume there would be more than
3 one facilities based telecommunications service?

4 A. I don't think so.

5 Q. So you were mainly looking at electricity and
6 cable and wireline or --

7 A. I'm sorry, yes, we did consider like long
8 distance providers. Like we knew from our experience
9 that AT&T and Qwest or U S West at the time shared many
10 facilities in downtown Seattle, conduits and the like,
11 so -- so they -- and that's what was good about this
12 exercise is I had about 40 or 50 years of actual
13 engineers who had worked in the telephone industry all
14 their lives in Washington to help sort through that
15 process of coming up with these numbers.

16 Q. I think the issue I'm trying to get at is
17 whether then you assumed more providers like maybe Covad
18 or, I'm forgetting some of the names of these because
19 they have now gone, but that was my point is whether you
20 made assumptions about multiple pole users then that
21 maybe we would not make now, and it sounds to me as if
22 you did not primarily think of them in that way?

23 A. Right, we did not.

24 CHAIRWOMAN SHOWALTER: Okay.

25 JUDGE MACE: We'll break for lunch now, we'll

1065

1 resume at 1:30.

2 (Luncheon recess taken at 12:00 p.m.)

3

4 A F T E R N O O N S E S S I O N

5 (1:30 p.m.)

6

7 JUDGE MACE: When we left off the Chairwoman
8 had some questions of Mr. Spinks, and I think she has
9 some additional questions.

10

11 E X A M I N A T I O N

12 BY CHAIRWOMAN SHOWALTER:

13 Q. Yes, we were talking about the HAI model
14 versus the Verizon model. One question I had, is it
15 necessary for the Commission to choose one or the other,
16 or if we find that each has their strengths or
17 dimensions, is it appropriate to take results from both
18 of them either on the same measure or different
19 measures?

20 A. Well, in past proceedings, we -- all the
21 parties had asked the Commission to choose one or the
22 other, and in fact that wasn't done. It has the benefit
23 of making it a lot easier if one model or the other is
24 used in that it gives some certainty to the process of
25 determining costs for future purposes. So to that

1066

1 extent, I believe parties, Staff included, would like it
2 if we had the certainty of a model that we could use. I
3 think I proposed in my testimony that if the Hatfield
4 model were found acceptable that I could clean up this
5 cluster data and correct those and put the time and
6 resources into it to have something that we could use
7 going forward. But again, in the past I think the
8 Commission has found indeed that there were strengths
9 and weaknesses to both models that precluded it from
10 accepting one or the other. I don't know if we have
11 arrived yet at the point where you can do that.

12 Q. In any event, our ultimate decision is
13 setting prices, not adopting a model; is that right?

14 A. Yes.

15 Q. I was going to ask you about those clusters.
16 You described what you did in the case of Aberdeen, and
17 no one asked you the question why did you not replicate
18 that exercise in other, I don't know if they were
19 exchanges or wire centers or what?

20 A. That was performed in the context of a
21 deaveraging proposal for Qwest that's been withdrawn
22 from the case now. There were 15 wire centers involved,
23 and I basically did it manually. If you were going to
24 process all of the 111 or 109 wire centers that you
25 have, you need to develop a batch process for doing that

1067

1 and then process them all at once, which would take some
2 time and resource to do that I didn't have at the time I
3 did the Qwest wire centers.

4 Q. But it sounds as if you agree that if you
5 want to make the outputs from the HAI model more
6 accurate than they are, you would do that exercise for
7 all locations?

8 A. Right, and I got the idea from a Minnesota
9 study that I read where the commission or the staff or
10 the Department of Commerce, I'm not sure which, had
11 hired a consultant, a consulting firm, to do just that
12 thing. They use it for the universal service line
13 purposes. So they hired a consulting firm that came in
14 and cleaned up the clusters for all the companies in the
15 state and then used that model for the USF.

16 Q. All right. Another area, you said that you
17 had used new inputs for certain subjects but not for
18 others, and I wrote down that you said you use new
19 inputs for depreciation, cost of capital, price of
20 copper cable, and switching prices perhaps among others.
21 I was not clear of the elements where you did not use an
22 update what the reason was. It was unclear to me
23 whether it was because the Commission had once approved
24 it or because it wasn't a dollar amount that needs
25 updating.

1068

1 A. Yeah, for the former reason. The Commission
2 had used them in the prior case. And again, my initial
3 objective was to try to use a constant set of inputs
4 across the cost model so that I could determine the
5 differences in the costs that were derived from the
6 models as opposed to the inputs.

7 Q. So your point is that if you used old out of
8 date inputs for the HAI model, you would also use them
9 for the Verizon model, and therefore no one was
10 prejudiced by using them?

11 A. When I read the updated documentation for the
12 HAI model, there were initially criticisms on -- in the
13 older version about switching prices for instance and
14 cable prices. And when I read the documentation, it
15 satisfied me that, through that and some other sources,
16 that, with the cable prices, that those updated inputs
17 would be acceptable. They were acceptable to me.

18 Q. But why?

19 A. In the sense --

20 Q. I'm sorry.

21 A. Well, on the cable price -- on the switching
22 prices it was because the FCC had accepted them, and so
23 I assumed that they had looked at them and found them to
24 be appropriate.

25 Q. Well, let me stop, that's a good example.

1069

1 First of all, these prices are dollar amounts; am I
2 right on that?

3 A. Yes.

4 Q. And then what, maybe you were asked this
5 question, but what year did the FCC accept them as
6 appropriate?

7 A. I was asked that, I ventured 1998.

8 Q. Okay. Then the question I have is why is a
9 1998 price, well, still good, or why wouldn't you try to
10 update it to a new price if the FCC might be out of
11 date; wouldn't you have to make that judgment?

12 A. The prices that we had used in the universal
13 service case I believe were even older.

14 Q. Right. So isn't that a problem is what I'm
15 saying. If we're determining prices, if prices are
16 seven years old, then an average person would think
17 they're probably not good anymore, shouldn't we try to
18 update them?

19 A. Right.

20 Q. And there should be a good reason why you
21 wouldn't I would think.

22 A. Yes. I didn't undertake to update inputs per
23 se. It was to find an acceptable set of them that I
24 could use across the models, that I was not so much
25 asking the Commission to accept as they were but to

1070

1 again make input prices constant across the models so
2 that I could look at the difference in the costs caused
3 by the models themselves.

4 Q. So are you saying your basic inquiry was into
5 the models themselves, not the inputs, and if we -- and
6 that it's our job or at least some other party's job to
7 update those inputs?

8 A. Yes. That the decisions that you would make
9 were by and large as far as I was concerned, Staff was
10 concerned, in the main valid.

11 Q. Then --

12 A. Some of them like structure sharing, the use
13 of structure sharing. Other -- I felt that it would be
14 on AT&T and Verizon to show us that -- where and by how
15 much various input prices should change.

16 Q. Okay. So perhaps this is oversimplistic, but
17 are you saying that you are not in particular vouching
18 for the dollar amount inputs put into the model?

19 A. Yes.

20 Q. You're mainly focused on the model itself?

21 A. Yes, we didn't undertake -- I had in past
22 proceedings examined some input prices and provided some
23 testimony like in the original generic. But in this
24 one, the focus was on -- largely on the deaveraging and
25 a different set of issues.

1071

1 Q. All right. This may be a related point, but
2 my memory is so short that I don't even know what my
3 notes refer to now, but at a certain point in time you
4 said you would have gone from 62 to 55, but you decided
5 "to stay with what we had".

6 A. Right.

7 Q. First of all, can you remind me what --

8 A. Yes, that was in structure sharing update.

9 Q. Okay.

10 A. I looked at, considered updating the
11 structure sharing, not based on a new analysis per se
12 like as we had done in the first case, but based on
13 looking at what other states around us had done.
14 Minnesota, Colorado, and Arizona all had orders come out
15 within a few months of each other back at the beginning
16 of 2003, end of 2002 time frame, so I looked at what
17 those commissions had done. And based on those three
18 orders, I thought that we could make a case to increase
19 the structure sharing in the lowest three density zones
20 from 87% to 100%. It seemed like most of the
21 commissions were, Colorado and Minnesota at least were
22 -- had used 100% in that density range. But then in the
23 middle three density range we had like 62% and they were
24 all between 50% and 60%. So there we could have come
25 down to 55% and we would have been right in line with

1072

1 where the other states were. So they went in both
2 directions.

3 Q. So why, my question actually is why didn't
4 you, why did you stick with what you had and not make
5 those changes?

6 A. Well, they were good too. There was nothing
7 to overturn, if you will, the analysis we had done
8 earlier on the structure sharing when we came up with
9 ours. Those were still -- that was still a good
10 analysis.

11 Q. So in other words, you did not find the later
12 analyses better than yours?

13 A. Right, because it wasn't analysis per se. It
14 was what commissions had determined after listening to
15 evidence that I hadn't heard and wasn't sure, you know,
16 I couldn't testify as to how they got to the 50% in the
17 middle three ranges, whereas I recalled, and I didn't
18 recite it quite correctly this morning, how we had done
19 ours. But I knew -- I knew in my testimony that what we
20 had explained was still sound and didn't -- it didn't
21 need to be changed because it was somehow wrong.

22 Q. Okay. I just have a few follow-up questions
23 on your testimony, and I think it begins in Exhibit
24 1060T, I'm sorry, 1062, I'm sorry, page 6. Some of
25 these are not questions about specific testimony, but we

1073

1 were on a certain page when you were giving answers that
2 prompted my questions. This actually gets back to this
3 issue about the HAI model being more efficient than the
4 Verizon cost model. And if it's more efficient, why is
5 it better for the purpose of setting prices? Is our
6 goal to set the most efficient prices, or is it our goal
7 to set an appropriate price? And if it's the latter,
8 why is efficient better?

9 A. The FCC in its various pronouncements about
10 TELRIC has sort of left holes in what they would allow
11 or what they, you know, the way they described how
12 things should be or could be big enough to drive a truck
13 through. I mean you could -- you could be at one end
14 where you model the network almost as it exists today,
15 or at the other end where it's almost purely
16 theoretical, and they're all TELRIC. You can't say that
17 they're not TELRIC just because of the different
18 interpretations you can put on the pronouncements the
19 FCC has made about TELRIC.

20 What TELRIC stands for, total element long
21 run incremental cost, though, long run incremental cost
22 is an economic concept that I'm quite familiar with that
23 involves allowing all your inputs to change. If you're
24 going to have the term long run incremental cost as a
25 description of a cost model, then it seems to me that it

1074

1 should follow the precepts of what long run incremental
2 cost is about. And what that's about is a cost
3 minimization exercise in which you allow all inputs to
4 vary. The only thing that the FCC held constant was the
5 current locations of the wire centers. And then courts
6 have subsequently determined other aspects of what's
7 appropriate or not appropriate for TELRIC. And so you
8 have to work within all of those to be compliant with
9 TELRIC.

10 Q. Well, okay, but my question was, among TELRIC
11 compliant prices, are the ones that are derived from a
12 more efficient model better, i.e., more desirable as a
13 matter of public policy or as a matter of fair and just
14 rates for this Commission to adopt? In other words, are
15 you equating more efficient with better and more
16 desirable?

17 A. No, I'm equating -- cost minimization is
18 another way of saying the most efficient. The long run
19 cost -- the long run costing exercise is about
20 minimizing your costs, not building up deliberately more
21 expensive network for reasons that aren't necessary for
22 the exercise that you're doing, which is the rebuilding
23 of a network to serve total demand.

24 Q. So does that mean that you believe that the
25 HAI model produces prices that are more efficient but

1075

1 equally achievable in a real sense, not theoretical?

2 A. I think when it comes to prices, and this is
3 where Dr. Blackmon was focusing his comments to you, we
4 don't agree with TELRIC in the context that TELRIC
5 equals price. That was where we had our beef and would
6 do things maybe differently if we weren't constrained by
7 TELRIC. But under TELRIC, the price has to equal
8 TELRIC. Now and it's not to say that the price should
9 be lower or higher I mean.

10 But what we had in mind was establishing long
11 run incremental cost for each UNE that would serve as a
12 floor and that there could be some flexibility for
13 companies to vary the price between the long run
14 incremental cost, not total element, but just the long
15 run incremental cost and the price to allow -- to give
16 them some flexibility in how they do that.

17 Now that's a two edged sword in that if
18 there's still an effective monopoly out there and you
19 give an incumbent that kind of pricing flexibility, then
20 there's potential for competition to be thwarted by it,
21 so. But if carefully done and correctly done, it's a
22 scheme that could work and would probably take some of
23 the problems and bitterness and the fighting that we
24 have going on with TELRIC out of it if they had more
25 flexibility.

1076

1 Q. Well, I know, but I'm trying to limit myself
2 to FCC-TELRIC-compliant prices or models producing
3 prices, and I'm trying to understand. So far my sense
4 from you is that HAI is better for us to use because it
5 assumes more efficiency in the long run than Verizon's
6 model assumes because Verizon's model is more rooted in
7 existing facilities or roots facilities. And if that
8 characterization is wrong, I would like to know. But I
9 would also like to know why, why is it better to use
10 that model. So it's a two part question.

11 A. Right. It's staying true to the model's
12 name, long run incremental cost. It's not about trying
13 to get the lowest prices or trying to get the cheapest
14 UNE's you can get. It's about economics, the economics
15 of long run incremental costing. Which model I ask
16 myself is more of a long run incremental cost model, and
17 the answer is the HAI is.

18 Q. Okay, that seems again --

19 A. Its' a necessarily theoretical exercise to
20 calculate long run incremental cost no matter what.

21 Q. But to me this brings us right back to my
22 very first question of you, I believe, which is it
23 sounds to me as if you are saying that because HAI is
24 more true to the concept of TELRIC, it's better.

25 A. Yes.

1077

1 Q. Okay. But the next question is, why is it
2 important for us to be truer to TELRIC than not? If we
3 have a range of possibilities that are TELRIC compliant,
4 according to you, why should we select the one that's
5 truest to the theoretical concept?

6 A. Well, I'm testifying as an economist in the
7 case, and to me that's what I would choose.
8 Commissioners as policy makers have other considerations
9 that maybe an economist doesn't know a lot about that it
10 needs to put into the mix when it makes its decisions,
11 so. And I'm not here to tell you what that is, but
12 rather that as an economist what I would choose.

13 Q. So you're not recommending to us what we
14 would do as a matter of policy, you're just giving your
15 professional opinion that as a matter of economic theory
16 the HAI model is more true to TELRIC than Vz?

17 A. Well, I haven't -- I haven't examined a
18 number of the policy considerations that the Commission
19 would likely examine in its deliberations, but I can
20 tell you that there's an NPRM at the FCC on TELRIC and
21 that once that comes out it's likely to change the
22 playing field again in terms of what is TELRIC that may
23 offer us both more guidance on how it envisions long run
24 incremental cost to be calculated.

25 Q. All right, but my question was, is your

1078

1 testimony limited to saying that HAI as a model is more
2 true to TELRIC than Verizon's as distinct from saying
3 HAI is a better choice for us in any -- in dimensions
4 other than its measuring it by efficiency or TELRIC?

5 A. My recommendation is limited as an economist.

6 Q. And --

7 A. To telling you of the two models, which is
8 the better representation of a long run incremental cost
9 model.

10 Q. Okay, thanks. Let me see if I have any other
11 questions.

12 If you could turn to 1064, page 6. Oh, 1065,
13 I'm sorry, page 6.

14 A. Yes, I have that.

15 Q. I'm looking at line 13, which you say, my
16 statement that HM 5.3 now explicitly models high
17 capacity refers to the fact that in prior versions, I'm
18 not quoting any more, loops were not included in the
19 design. When you had the discussion of this, I thought
20 what I heard you say is that, and that the high capacity
21 loops were now part of I kind of understood rolled in to
22 the model, that is they existed in there somewhere but
23 actually were not explicit. My question actually is, is
24 the word explicit confusing, and is implicit a better
25 word?

1079

1 A. No.

2 Q. No?

3 A. Maybe I haven't done a good job explaining
4 the history of it. In the original case we used the
5 actual line counts of total access lines, and for the
6 purpose of this discussion say there were a million
7 access lines that the company had total. The HD
8 Hatfield model used all million lines, and it modeled
9 single copper loops to serve all of those lines. But it
10 was known that many -- over every DS1 facility there
11 were up to 24 loops being provided over that one fiber
12 cable or two twisted pairs for the -- that were
13 providing the DS1. And so what was happening is you
14 were getting economies of scale or scope in your cost
15 estimates that weren't true to what -- how the network
16 was really provisioned. That is that there were fiber
17 cables and there were DS1 circuits instead of all of
18 these copper pairs.

19 So what the Commission did in the original
20 case is it determined through Bench requests or data
21 requests that there were only 800,000 loops that were
22 actually served by copper. So it took the 200,000 out
23 and ran the cost model with the 800,000 loops and used
24 that cost so that it would have -- it reflected proper
25 scale and scope economies.

1080

1 What the 5.3 version of the model did was it
2 then explicitly put into the model DS1 and DS3 circuits
3 that were carrying loops, channels, circuits, and
4 modeled the fiber, modeled the DS1, priced out the
5 equipment, put all that in so that it was truer to the
6 way the network works today, and then uses all million
7 loops, 800,000 of them are on copper pairs and 200,000
8 of them are running over DS1 and DS3 facilities. So
9 that's what I meant by explicit.

10 Q. Okay. And are they trackable? I was having
11 a hard time following what the issue was.

12 A. Well, as I understood Mr. Murphy's testimony,
13 he had -- he was trying to determine in modeling those
14 loops, some of those DS1 and DS3 circuits serve private
15 line services for instance, and he was trying -- and so
16 he was trying to determine, as I understood it, how many
17 -- how the HM modelers had split up the total DS1 and
18 DS3 circuits and channels between the services that
19 we're not pricing in this proceeding and the services
20 that we are pricing in this proceeding, and he was still
21 awaiting at the time he wrote the testimony some -- a
22 response to a data request in order to determine that.
23 But in the meantime had -- throughout the statement that
24 I was wrong in saying that it was explicitly modeled,
25 and I didn't understand why he said that. Well, and I

1081

1 thought that he had not understood what I had meant when
2 I had said that the first time, and that's why I put
3 this Q&A in here was to clarify for him that -- what I
4 meant when I said that.

5 Q. Okay, thanks.

6 CHAIRWOMAN SHOWALTER: Thank you, that's all
7 the questions I have.

8 BY CHAIRWOMAN SHOWALTER:

9 Q. Oh, wait a minute, I've got one more. This
10 note of mine is from last week, so I can recall the
11 context even less, but I have a note to myself to ask
12 you whether you agree I believe it was with Verizon's
13 witness on perhaps cost of capital that one should
14 decouple UNE minutes of use from retail prices, that is
15 they're independent of one another in terms of our
16 setting those prices?

17 A. Yeah, I think what that discussion was about,
18 the fact that retail services are flat rated, there
19 aren't minutes of use, but companies currently charge a
20 minute of use rate for access basically. And I believe
21 AT&T is saying, if you sell them to the retail that way,
22 you should sell them wholesale that way. And whoever it
23 was that was talking said, no, you should uncouple them.

24 I don't know that I have an opinion about
25 that. I don't think that the -- that how we do things

1082

1 retail justifies what you do in the wholesale I guess is
2 what I would say. But at the same time, I would just
3 note that the Commission has in the past endorsed the
4 concept of a capacity charge, which is what these flat
5 proposals are all about is not explicitly charging for
6 minutes of use any more.

7 CHAIRWOMAN SHOWALTER: Okay, thank you.

8 JUDGE MACE: Commissioner Hemstad.

9

10 E X A M I N A T I O N

11 BY COMMISSIONER HEMSTAD:

12 Q. My few questions are going to be at quite a
13 generic or conceptual level. You I take it are
14 suggesting some changes to the inputs to be used in the
15 Hatfield model; that's true, isn't it?

16 A. Changes from prior Commission orders.

17 Q. And those kinds of input changes are
18 relatively easily accomplished within the model?

19 A. Yes.

20 Q. Are you proposing any changes to the Hatfield
21 model itself, not the inputs, but how the model works?

22 A. No.

23 Q. All right. So I take it then that the Staff
24 position is to accept the model but then tinker with the
25 inputs?

1083

1 A. Partly. In saying that I'm not proposing
2 changes in the model, I just want to point out that we
3 -- the new data clusters, the new clustering algorithm,
4 came in I believe in January this year.

5 Q. Well, is that an input question, or is that a
6 model question?

7 A. That's a model question, that's part of how
8 the model operates. That is I think one of the issues
9 that the Commission will need to determine in this case
10 is the validity, if you will, of the new clustering
11 method. And I didn't have an opportunity in the time it
12 came in to work with those.

13 Q. All right, now is that something that can be
14 relatively easily accomplished?

15 A. Well, I believe that the Commission if it
16 wants to see for instance a different clustering method
17 used or a different size of cluster, the clusters are
18 new conceptually in terms of the size of the
19 distribution area they model. If the Commission doesn't
20 find that to be appropriate for some reason, they could
21 redo the clusters, or you could revert back to the
22 existing clusters which were in the model before.

23 Q. But my question really is, assuming that the
24 revised bundle of cluster information is desirable.

25 A. Right.

1084

1 Q. Is that relatively easily accomplished as a
2 model change, or does that have other ripple effect
3 consequences in the model that would also then require
4 other kinds of changes?

5 A. No, I don't believe they will require other
6 changes.

7 Q. And is that something that the Staff, I'm
8 jumping to a conclusion here or an inference that no one
9 should take as a conclusion, but to go that route, is
10 that something that the Staff would be able to
11 accomplish, or is that something --

12 A. I think we would have to have the modelers
13 redo it or TNS if the clusters were to be redone. I
14 believe I read in Verizon testimony that the clustering
15 process took about 72 hours to run to create the
16 clusters, but that would be a one time thing. It's not
17 something you would do and redo and redo, so. But if
18 you, yeah, if you went to updated clusters of a
19 different say area that they would cover, then you would
20 ask them to redo those clusters. And once you had them,
21 then you would have them, and they would be good for the
22 future.

23 Q. Are there other issues where there would be
24 the Staff would be proposing changes to the model
25 itself?

1085

1 A. I don't believe so. They have the menu for
2 the structure sharing, I have a distribution module
3 that's modified to do the loop length adjustments, so
4 I'm not aware of other areas where it would require
5 changes.

6 Q. You had intimated that it was your objective
7 to try to get all of the inputs for either model to be
8 the same and were not able to accomplish that. Can you
9 describe briefly why?

10 A. Sure. The VzCost model has I think an, I
11 don't know if the number is correct, but they might use
12 four to six different sizes of poles, each of which has
13 a different cost, and then selects the pole depending on
14 the particular circumstance, and those have all
15 different prices, maybe \$300 to \$700. The HAI model or
16 the HM model uses one size pole, a 40 foot pole, with
17 one price.

18 Cable is another. There might be shielded
19 cable and unshielded cable and various types of cable
20 used in a VzCost model for every different circumstance,
21 and there's only one set of cables that are used in the
22 HM model. So when I began to look at how I was going to
23 equalize these, I quickly ran into a whole series of
24 problems about how I could make them equivalent somehow.

25 COMMISSIONER HEMSTAD: That's all I have,

1086

1 thank you.

2 JUDGE MACE: Commissioner Oshie.

3

4 E X A M I N A T I O N

5 BY COMMISSIONER OSHIE:

6 Q. Mr. Spinks, you referred to I believe the
7 loop length adjustment as the great equalizer, and I
8 have kind of a lay understanding of what that may mean,
9 but I thought you could elaborate a bit as to what you
10 meant by that.

11 A. Sure. Many of the issues that have been
12 raised in this case have to do with a model either not
13 building enough plant or building too much plant. And
14 if you look through the testimonies, you will see issue
15 after issue relating to that, that goes to that concern.

16 When we make a loop length adjustment though,
17 what we do is no matter whether it overbuilt the plant
18 in that wire center and underbuilt it in this wire
19 center, if it overbuilt it here, we reduce the cable and
20 cable related costs by the percentage that the loop
21 lengths that were in the overbuilt wire center, they get
22 reconciled with the actual loop lengths. So if there
23 were 10% too much plant in this wire center, all of the
24 loop related costs are reduced by 10%. If in another
25 wire center it only built 70% of the plant that it

1087

1 needed to build out there, then the costs in that wire
2 center are increased by 30%.

3 So what the loop length adjustment does is
4 bring some sense of sanity, if you will, back to the
5 what the models will sometimes do for various reasons is
6 err and err badly sometimes in their -- the way they
7 model plant. Bad input data or other reasons can cause
8 that. And so what the adjustment does though is it
9 brings it all back to a single point.

10 Q. Do both the VzCost model and the HAI model
11 allow for some adjustment of the loop length?

12 A. Yes, they do.

13 Q. Do you find that the adjustment mechanism in
14 both models functions equally well?

15 A. Well, I wasn't aware of the VzCost mechanism.
16 I don't believe that when they originally filed the
17 model that it had that mechanism and that it was
18 introduced in January, but I'm not certain of how that
19 came about. I do know that the mechanism in the -- used
20 in the HAI model, how that operates, because I have
21 looked at that.

22 Q. Let me change subjects and refer you to your
23 testimony, Exhibit 1062.

24 A. I have that.

25 Q. And I will also refer you to page 11, lines 2

1088

1 through 6.

2 A. Yes.

3 Q. And there, if I can summarize, you state that
4 Staff doesn't believe that Verizon is facing effective
5 competition within its service area. You refer to
6 information presented by Mr. West and also I believe
7 Verizon responses to data requests. But I thought
8 perhaps you could explain what factors, if you will,
9 Staff analyzed in making its determination based on the
10 responses from Verizon and the testimony of Mr. West
11 that Verizon did not face effective competition in the
12 service area?

13 A. Right, well, I will begin with clarifying on
14 Mr. West didn't state that they had effective
15 competition, he discussed competition as being serious,
16 ongoing, well, if you read his testimony it speaks for
17 itself, and I wanted to get a better handle on how
18 serious, if you will, the competition was. So I asked
19 them in a couple of several data requests for things
20 like how many lines they had lost to competitors, and
21 they provided me with several reports that they have
22 showing their access line losses. I totalled up those
23 access line losses and divided it by the number of lines
24 that -- by their total access lines, and that's how I
25 developed the 97%.

1089

1 Q. Was that total number of access lines the
2 real heart of the request, Staff Data Request Number 42?

3 A. No, the total access lines came out of the
4 model. The heart of the data request was how many lines
5 they had lost to competition. And I didn't cite any
6 numbers, because that was all confidential, so I just
7 used the percentage.

8 Q. And so then access line loss was the primary
9 factor that you analyzed or was analyzed under your
10 direction for you to reach an opinion that Verizon faced
11 no effective competition in its service area?

12 A. Yes, which I believe is the -- what Staff
13 would look to under RCW 80.36.330, effective
14 competition, where it talks about effective competition.
15 We would be looking to see 20% to 30% market share loss,
16 somewhere in there, which isn't to say that there aren't
17 market segments that may have some losses higher than
18 3%, it depends on the segment you look at, but in the
19 main, all in all I think they certainly haven't lost
20 anything near what like Qwest has lost.

21 COMMISSIONER OSHIE: I have no further
22 questions, thank you.

23 JUDGE MACE: The Chairwoman has some
24 additional.

25

1090

1 E X A M I N A T I O N

2 BY CHAIRWOMAN SHOWALTER:

3 Q. I have some follow up, if you could turn to
4 Exhibit 1065T, page 5.

5 A. Yes.

6 Q. This is another question about cost of
7 capital, and my understanding is you take issue with
8 Dr. Vander Weide on a couple of counts, but one is his
9 use of a broad range of competitive companies that are
10 not in the telecom business that is a sort of generic
11 group of competitive companies, and the other was the
12 use of market based value other than book value.

13 And I guess my question is, in light of our
14 earlier exchange, I think his defense of it was, well,
15 in a true competitive world, i.e., a kind of a long run
16 TELRIC world, you really would have true competition,
17 and therefore -- and therefore you must set your prices
18 based on that future scenario. And you are saying here,
19 but in the real world that is not Verizon's capital
20 structure, and it is not one of those competitive
21 companies. Now this to me sounds kind of like a
22 reversal of roles where you're saying, pay attention to
23 the real world, and he's saying, but TELRIC is TELRIC.
24 So what is your answer to that?

25 A. Well, he is interpreting the FCC's

1091

1 proclamations in the TRO regarding cost of capital as
2 meaning that -- what he's done. And I think the
3 question there, the heart of that is when the FCC talked
4 about the cost of capital there, did they do that as if
5 they had never made any prior proclamations about cost
6 of capital? In other words, is this a complete
7 replacement of everything that went on in the past about
8 cost of capital, or was this in addition to what we
9 already do with the cost of capital, what was already
10 said about it.

11 And I guess I tend to see this as more an
12 incremental measure where they were saying, oh, yeah,
13 also we want you to treat the cost of capital like it's
14 -- like you're operating in a fully competitive market.
15 But in saying that, I didn't have the sense that they
16 were saying, throw out everything that you know about
17 the real world. I rather seen it not as an either/or
18 proposition but more like a layer upon, well, you have
19 the real world that you have to deal with, but for
20 purposes of determining your overall cost of capital, we
21 want you to consider that it's a fully competitive
22 market out there. And while that may mean some higher
23 cost of equity for example, I didn't take it to mean you
24 have to take every piece of your capital structure and
25 make it as fully competitive as you can get it. I think

1092

1 that's an extreme view.

2 Q. Well, as an economist looking at efficiency
3 and TELRIC, which view, Dr. Vander Weide's or yours, on
4 this issue is more true to a theoretical model of
5 competition?

6 A. I don't know that I can really weigh in on
7 that very well. Again, I think his interpretation is an
8 ultra competitive world that we live in. I have agreed
9 in my testimony that some adjustment may be appropriate
10 but that you don't need to go that far to be in
11 compliance with the TRO. And certainly insofar as the
12 capital structure goes, that to Staff seemed to be an
13 area where we have some concerns about use of the market
14 value. We think that the book value is forward looking,
15 it is -- balances, it's managed on a daily basis by the
16 company, it's adjusted accordingly to keep it safe, a
17 combination of a safe and efficient, and we just didn't
18 see the sense in going to a market based structure, so.

19 CHAIRWOMAN SHOWALTER: Thank you.

20 JUDGE MACE: Dr. Gabel had a follow-up
21 question or two.

22

23 E X A M I N A T I O N

24 BY DR. GABEL:

25 Q. Mr. Spinks, I would also like to follow up on

1093

1 the questions the Commissioners presented to you about
2 matching up numbers between the two models, and
3 specifically I would like to talk about structure
4 sharing. Do you -- and for the purpose of this question
5 I would like you to assume that within the Verizon model
6 there's only one input for the degree of structure
7 sharing, that it doesn't vary by density zone, okay?

8 A. Okay.

9 Q. And if you accept that assumption, that just
10 one assumption is made for the amount of structure
11 sharing for aerial cable that applies throughout the
12 state or one assumption about the degree to which
13 structure sharing applies to buried cable throughout the
14 state, is it possible to match your recommendations on
15 structure sharing that were adopted by the Commission in
16 960369 with the way in which I'm asking you to assume
17 the Verizon model operates?

18 A. Yeah, I think you could estimate it. Let's
19 see how you could do it. You could take the Hatfield
20 model results at the before and after total investment
21 and before structure sharing and then investment after
22 structure sharing, divide the after into the total, and
23 you would get an average percentage of sharing which you
24 could then use to input in the Vz model if it operated
25 that way.

1094

1 Q. Thank you.

2 Next item I would like to move on to is after
3 our luncheon break I understood you to state in response
4 to a question from the Chair that you may have
5 misrepresented or misstated how your sharing study was
6 done initially. Did I understand that to be your
7 testimony this afternoon?

8 A. Right, I was -- I was, well, I was thinking
9 about it over lunch, what I had said, and something just
10 wasn't clicking right that I hadn't quite figured out.
11 And when I got back, there was my old testimony from
12 0369 and when -- and in reviewing it, then I remembered
13 exactly the way it was done, which was identifying the
14 range of sharing that would take place in any zone.
15 That is we have identified a number of providers at the
16 low and high end and then used the center point in that
17 range to calculate the number.

18 Q. All right.

19 And then a final item, Mr. Spinks. I
20 understood you to state in response to a question from
21 the Chair that if a Commission finding was made in this
22 docket, you would like to go back and work with the
23 clustering data. And you made some reference to what
24 was done in Minnesota. But then I understood you in
25 response to a question of Commission Hemstad that you

1095

1 said, well, reclustered would need to be done by TNS.
2 So I'm not clear about what you would want TNS to do as
3 opposed to what you think you could do and what needs --
4 what you think needs to be done. So I guess first is
5 what you think needs to be done, and then what is it you
6 feel you could do independently of what TNS would need
7 to do?

8 A. What needs to be done is the clusters need to
9 be projected to see that they're properly located or
10 not. If they're not, they need to be adjusted
11 accordingly. And in my cross from Verizon, I believe it
12 was, the question was asked whether the DLC's would
13 still be in the right location or whether some
14 additional equipment would be needed, and to that I
15 don't know. It would depend on the degree of that the
16 clusters were misplaced possibly. There may be nothing
17 that needs to be done to them.

18 But in response to Commissioner Hemstad's
19 question, what I was referring to there was the new
20 clusters are about a magnitude of about four times
21 larger than the older clusters, and so they're bringing
22 these efficiencies out of the design of the distribution
23 network, and much testimony has been submitted by
24 Verizon saying that's wrong, has errors in it. If that
25 turns out to be the case, then if you were to use a

1096

1 model, you may want some -- to have the clusters redone
2 to correct those errors. That would have to be done
3 through the 72 hour run where they redo the clusters.

4 Q. And then just following up then on the line
5 of cross-examination by Commissioner Hemstad, for this
6 first area, ensuring that the DLC's are properly located
7 within a cluster, this would be work that you would
8 propose to do yourself and --

9 A. Well, I don't have the program to do the
10 actual clustering with if changes have to be made. Now
11 if they don't have to be made, I can do all of the
12 cleanup work in terms of determining if they're located
13 properly or not, and if not, putting them in their
14 proper location and developing the new radial distances.

15 DR. GABEL: Thank you.

16 JUDGE MACE: Ms. Ronis.

17 MS. RONIS: Yes, thank you.

18

19 C R O S S - E X A M I N A T I O N

20 BY MS. RONIS:

21 Q. Mr. Spinks, you testified in response to a
22 question from Commissioner Oshie that the loop lengths
23 are the great equalizer, excuse me, your loop length
24 adjustment is the great equalizer, correct?

25 A. Yes, well, he was asking me to explain what I

1097

1 meant by that.

2 Q. But loop lengths aren't the only component of
3 loop costs; isn't that correct?

4 A. I'm sorry, would you repeat that?

5 Q. Loop lengths are not the only component of
6 loop costs?

7 A. Well, loop lengths measure the amount of
8 cable per loop that you have put in. When you do the
9 adjustment, you're not just adjusting that, you're
10 adjusting all of the associated structure costs with it.
11 All of those related costs all get adjusted at the same
12 time. One other thing I will point out is it's not the
13 only way to adjust it. Using the strand feet of cable,
14 for instance, might be a better way to perform the
15 adjustment. However you do it though, the point is you
16 can take the over or underbuilding that a model does and
17 largely offset the effects that -- the inaccurate
18 effects it would have by -- through some reconciliation
19 process, be it loop points or a strand adjustment.

20 Q. Are you saying that your loop length
21 adjustment also adjusted the Hatfield model so it
22 reflected the actual number of digital loop carrier
23 terminals in Verizon's actual network?

24 A. No.

25 Q. What about the actual number of SAI's in

1098

1 Verizon's network?

2 A. No, you wouldn't be adjusting those to their
3 actuals, because you wouldn't want to do that. If you
4 placed the proper amount of terminals to provide the
5 service to begin with, there's no need to increase or
6 decrease those when you make this loop length
7 adjustment, at least that I'm aware of.

8 Q. So when you refer to downstream investments,
9 I may be misquoting you and you can correct me, you just
10 meant the cost for the cable itself, that that was
11 adjusted through your adjustment?

12 A. No, the program that does the adjustment
13 totals up all of the loop related costs. All of the
14 costs that are distance sensitive are aggregated and
15 then adjusted upward or downward. So if it's distance
16 sensitive, it's in there. Like the number of poles
17 would be adjusted, so if you needed more poles, my
18 understanding that it includes that. The feet of
19 trenching for underground, the feet of conduit for
20 buried, that all of those distance sensitive investments
21 are included in this adjustment.

22 Q. You just testified a moment ago that at the
23 break you had a chance to review or when you returned
24 from the break you had a chance to review your testimony
25 filed in the 1998 UNE proceeding, correct?

1099

1 A. Right.

2 Q. And that was provided by me, correct?

3 A. Yes, but I had thought about it over lunch
4 and realized that something -- that I hadn't quite
5 explained it right, and I didn't need to look it up
6 because you had, so I thank you for that.

7 Q. Now so I'm not clear if you're saying there
8 are some additional studies you did to support your
9 structure sharing, or is it just this testimony where
10 you picked a range?

11 A. This testimony summarizes what we did.
12 Again, what we did was to sit down and look at -- this
13 is just a summary of the process, and I had misstated
14 exactly what -- how that process had worked. But no,
15 there's not -- there's not some study out there that's
16 not in the record.

17 JUDGE MACE: I think I want to ask at this
18 point, since it appears that you do have copies of this
19 testimony and it's been referred to that we have it
20 marked as an exhibit for purposes of identification so
21 that when we go through the record we have this
22 available to us.

23 MS. RONIS: Sure, I was going to do that.

24 JUDGE MACE: Do you have copies for the
25 Bench?

1100

1 MS. RONIS: Yes.

2 JUDGE MACE: This will be 1069, it will be a
3 cross exhibit Mr. Spinks.

4 MS. RONIS: So I really wasn't going to do
5 much more than this, than to ask that it become part of
6 the record and also whether counsel could make part of
7 the record any studies that support it since
8 particularly in response to questions from the Bench we
9 got into a lot of details about his prior
10 recommendations in 1997 on structure sharing. So I'm
11 still not clear if there are studies or not, but we
12 would like whatever you have supporting your testimony
13 to be produced. We're not clear whether it was produced
14 in the 1997 proceeding or not. We couldn't find it. We
15 could only find this testimony.

16 JUDGE MACE: Mr. Spinks, are there studies?

17 THE WITNESS: No, ma'am.

18 JUDGE MACE: No.

19 MS. RONIS: I have nothing further, so I
20 would just like to move into evidence Exhibit 1069.

21 MS. SMITH: No objection.

22 JUDGE MACE: I will admit it.

23 Ms. Smith, did you have any redirect?

24 MS. SMITH: Very briefly, Your Honor.

25 JUDGE MACE: Go ahead.

1101

1

2 R E D I R E C T E X A M I N A T I O N

3 BY MS. SMITH:

4 Q. To begin with, Mr. Spinks, do you recall your
5 question and answer from earlier this morning with
6 Ms. Ronis regarding the drop lengths referred to in the
7 Commission's Eighth Supplemental Order in UT-960369?

8 A. Yes, I do.

9 Q. Did you use the loop lengths from that order
10 in your analysis for this docket?

11 A. They were drop lengths, and the answer is no.
12 I was referring to UT-980311 for drop lengths for that
13 input. And in that order, the Commission had indicated
14 that it was using those but it preferred for drop length
15 studies to be done. And one of my first DR's to Verizon
16 was whether it had updated its drop length study. It
17 indicated it had not in response to the data request.
18 And that's why I continued to use the drop lengths that
19 were in that order.

20 Q. There was also a question from Ms. Ronis this
21 morning about whether you examined the TNS source code,
22 and your answer to that question was no. Why didn't you
23 do that?

24 A. Well, as I discussed in my rebuttal testimony
25 I think, one could do that as a way to see -- to

1102

1 determine how accurate the clusters are, but I think a
2 better way to do that is to after the fact to look at --
3 and a cluster defines a given geographic area, you can
4 survey the area covered in there and see how many
5 residence and business customers that you have in that
6 area and compare it with what the model -- with what the
7 cluster says it says are in that area. So rather than
8 working through all of the complex preprocessing
9 programs, it seemed to me a much easier way to judge the
10 accuracy of the clusters would be to, on the back end,
11 to compare what come out of it with what was actually
12 out there.

13 Q. And finally, following up on the Chairwoman's
14 questions on the factors that distinguish the HAI model
15 from VzCost, are there any factors other than the
16 assumptions about actual versus hypothetical route
17 configurations that lead you as an economist to
18 recommend the HAI model over VzCost?

19 A. I'm sorry, could you repeat that, I missed
20 that.

21 Q. Yeah. You had an answer in the Chairwoman's
22 questions, there were a lot of questions about the
23 factors that distinguish the HAI model from VzCost, and
24 the discussion was surrounding assumptions about actual
25 versus hypothetical route configurations. And my

1103

1 question to you, are there any other factors about the
2 HAI model that lead you to recommend it over VzCost as
3 an economist?

4 A. Well, I have been using the HAI model for a
5 number of years, and I appreciate how easy it is to use,
6 its lack of being overly complex, and the fact that it
7 produces a more efficient result.

8 MS. SMITH: That's all I have, thank you.

9 JUDGE MACE: Ms. Ronis, anything else?

10 MS. RONIS: No.

11 JUDGE MACE: Anything else?

12 Yes, Dr. Gabel has a Bench request for this
13 witness.

14

15 E X A M I N A T I O N

16 BY DR. GABEL:

17 Q. Mr. Spinks, in response to a question
18 regarding how you could take your density zone sharing
19 assumptions and reduce them down to one number for
20 aerial, buried, and underground structured, you said
21 that you could look for some guidance from the Hatfield
22 model.

23 A. Yes.

24 Q. Do you recall that response?

25 A. Yes.

1104

1 Q. All right. As a request from the Bench,
2 could you identify where within your workpapers that
3 information could be found and actually make the
4 calculations so we're including in your response the
5 worksheet number and the cell reference?

6 A. Yes.

7 DR. GABEL: Thank you.

8 (Bench Request 8.)

9 JUDGE MACE: One last thing, Ms. Ronis, you
10 caused to have marked some cross exhibits, actually two
11 of those I suggested be marked, and they were the prior
12 testimony because --

13 MS. RONIS: I mentioned them.

14 JUDGE MACE: -- you mentioned them. And you
15 now just offered 1069, but you did not refer to the
16 other three exhibits, are you not offering those in
17 evidence?

18 MS. RONIS: No, we do not need to offer them
19 into evidence.

20 JUDGE MACE: All right, thank you very much.

21 You're excused, Mr. Spinks, thank you.

22 THE WITNESS: Thank you.

23 JUDGE MACE: We'll take a break at this point
24 for 15 minutes and then go to Mr. Turner, who I believe
25 is our next scheduled witness.

1105

1 MS. RONIS: I consulted with Mr. Kopta and
2 asked him if he wouldn't mind if we switched Mr. Gillan
3 and Chandler around and went next to them and then to
4 Mr. Turner, and he said that would be fine.

5 JUDGE MACE: All right, that's what we'll do
6 then.

7 MS. RONIS: Thank you.

8 (Recess taken.)

9 JUDGE MACE: Would you please stand,
10 gentlemen, raise your right hands.

11 (Witnesses Richard Chandler and Joseph Gillan
12 were sworn.)

13 JUDGE MACE: Mr. Kopta.

14 MR. KOPTA: Thank you, Your Honor.

15

16 Whereupon,

17 RICHARD CHANDLER AND JOSEPH GILLAN,
18 having been first duly sworn, were called as witnesses
19 herein and were examined and testified as follows:

20

21 D I R E C T E X A M I N A T I O N

22 BY MR. KOPTA:

23 Q. Mr. Gillan, will you state your name and
24 business address for the record, please.

25 A. (Mr. Gillan) Yes, Joseph Gillan, P.O. Box

1106

1 541038, Orlando, Florida 32854.

2 Q. Mr. Chandler, would you provide the same
3 information for yourself, please.

4 A. (Mr. Chandler) Richard Chandler, care of HAI
5 Consulting, Incorporated, 1355 South Boulder Road,
6 Number 184, Louisville, Colorado 80027.

7 COMMISSIONER HEMSTAD: Can we be off the
8 record for a moment.

9 (Discussion off the record.)

10 BY MR. KOPTA:

11 Q. Gentlemen, I'm going to ask you a series of
12 questions directed to both of you, and I would like
13 Mr. Gillan to answer first and then Mr. Chandler.

14 Do you have before you what's been marked for
15 identification as Exhibit 801T, which is the joint
16 direct testimony of Joseph Gillan and Richard Chandler,
17 Exhibit 802TC, which is the confidential joint rebuttal
18 testimony of Joseph Gillan and Richard Chandler, and
19 Exhibit 803T, which is the joint reply testimony of
20 Joseph Gillan and Richard Chandler?

21 A. (Mr. Gillan) Yes.

22 A. (Mr. Chandler) Yes.

23 Q. Were those exhibits prepared by you or under
24 your direction and control?

25 A. (Mr. Gillan) Yes.

1107

1 A. (Mr. Chandler) Yes.

2 Q. Do you have any changes to make to your
3 testimony at this time?

4 A. (Mr. Gillan) Yes.

5 A. (Mr. Chandler) No.

6 Q. Would you identify the changes?

7 A. (Mr. Gillan) Okay, I will take the fall for
8 this one.

9 JUDGE MACE: Go ahead, Mr. Gillan.

10 A. (Mr. Gillan) It is to the joint rebuttal
11 testimony, which I believe is 802TC on page 11, line 16,
12 Verizon's last round of testimony correctly pointed out
13 that they had not updated some usage numbers in ARMIS
14 since 2000. And so using the most current numbers from
15 2000 on line 16, their proposed switching charge would
16 instead of being \$17.28 it would be \$16.05.

17 And again on page 12, providing essentially
18 the backup information for that on line 10 where it says
19 2003, that should say 2000.

20 And on line 11 it should say 2,700 minutes
21 per line instead of 2,900 minutes per line.

22 Q. And with these corrections, are the exhibits
23 that I have identified for you true and correct to the
24 best of your knowledge?

25 A. (Mr. Gillan) Yes.

1108

1 A. (Mr. Chandler) Yes.

2 Q. And if I asked you the same questions that
3 are contained in those exhibits, would your answers
4 today be the same?

5 A. (Mr. Gillan) Yes.

6 A. (Mr. Chandler) Yes.

7 Q. Have you prepared a summary of your
8 testimony?

9 A. (Mr. Gillan) Yes.

10 A. (Mr. Chandler) Yes.

11 Q. Would you please provide those now.

12 A. (Mr. Gillan) Obviously given the time and the
13 lateness of the day it's a very brief summary. Our
14 testimony focuses on a single issue, and that is to
15 propose a more economically sound and cost based rate
16 structure for local switching. And that rate structure
17 would be a simple price per port for the switch without
18 an additional charge for usage. The reason for this is
19 that the usage price in the switching is largely an
20 historical anachronism. It reflects pricing
21 circumstances and technological circumstances that no
22 longer exist.

23 The pricing circumstance was that
24 historically the telephone company wanted to provide a
25 variety of services using its switch, and in order to

1109

1 justify prices in a rate of return rate base
2 environment, it had to be able to come up with a
3 discreet cost for each of the individual services which
4 gave the need -- rise to the need to allocate the cost
5 of the switch between different uses.

6 In a UNE environment, which is what we're
7 talking about here, the lessor of the switch, the CLEC
8 that leases capacity, does it on a per subscriber basis.
9 And just like the local telephone company, who obtained
10 the switch without paying a usage rate to the
11 manufacturer, the CLEC -- we're proposing that the CLEC
12 would lease that capacity on a per port basis.

13 The technological reason will be addressed by
14 Mr. Chandler, which is fundamentally that years ago when
15 switches were manufactured they were limited in their
16 capacity to handle usage, but that limitation with
17 modern technology no longer exists, and Mr. Chandler
18 will explain that further.

19 Finally, our testimony also provides you a
20 summary of the rates, the flat rate charges established
21 by other commissions recently, including the Wireline
22 Competition Bureau of the FCC in a Virginia arbitration.
23 And while we're not proposing the rate by the support by
24 Mr. Mercer, the rate of \$2.81 that AT&T and MCI are
25 proposing fits squarely in that range of rates

1110

1 established around the country by the five state
2 commissions that have adopted this rate structure and
3 the Wireline Competition Bureau.

4 JUDGE MACE: Mr. Chandler.

5 A. (Mr. Chandler) As Mr. Gillan said, the
6 purpose of my testimony is to demonstrate that there is
7 no longer any technical basis for usage based switching.
8 It used to be the switches would exhaust real time
9 processor capacity back in the receding past. The --
10 over the years advances in processor technology as well
11 as software engineering practices have brought us to the
12 point where that's no longer the case, that switches
13 these days are virtually unchallenged by the demands
14 offered by subscribers.

15 I will give you an example. When the 5ES
16 from the time AT&T was first commercially deployed in
17 about 20 years ago, around 1980, it had a processor
18 capacity of about 100,000 busy hour calling times, and
19 today that -- the modern version of that same switch,
20 the one that carries busy hour today, has a processor
21 capacity of 2.5 million busy hour calling times. And
22 other manufactured switches have seen and enjoyed
23 similar profound increases in capacity.

24 Also, when a -- and again, according to
25 current practice, when a -- when a carrier orders a

1111

1 switch from a vendor, they do little more than specify
2 the number of lines and the mix of lines, the type of
3 lines and switches to serve. Then the vendor performs
4 all the equipment configure -- goes through all the
5 equipment configuration steps, manufactures the switch,
6 and ships it to the carrier. And to the extent the
7 vendor has to accommodate high usage lines, the vendor
8 will adjust concentration ratios within a switch.

9 And conceptually and technically this is
10 essentially identical to what one does when one
11 engineers a digital loop carrier and, I'm sorry, an
12 integrated digital loop carrier system, which is a flat
13 rated -- is a flat rated entity as far as cost is
14 concerned. So my conclusion is there is no -- there's
15 no technical basis whatsoever with forward looking
16 technology for usage based switching loops.

17 MR. KOPTA: I move for admission of Exhibits
18 801T, 802TC, and 803T.

19 JUDGE MACE: Is there any objection to the
20 admission of those exhibits?

21 MS. RONIS: No objection.

22 JUDGE MACE: Okay, I will admit them.

23 MR. KOPTA: Mr. Gillan and Mr. Chandler are
24 available for cross-examination.

25 JUDGE MACE: Ms. Ronis.

1112

1 MS. RONIS: Thank you.

2

3 C R O S S - E X A M I N A T I O N

4 BY MS. RONIS:

5 Q. Good afternoon, Mr. Gillan and Mr. Chandler,
6 Catherine Ronis from Verizon.

7 If AT&T terminates traffic from a Verizon
8 customer, Verizon pays AT&T reciprocal compensation,
9 correct? Either one of you can answer this.

10 A. (Mr. Gillan) I believe that's the case.

11 Q. And typically part of the reciprocal
12 compensation rate is the per minute of use either for
13 the tandem or the end office; isn't that correct? At
14 least one part of it would be the per minute of use
15 established for local service?

16 A. (Mr. Gillan) That's generally the way it is
17 arranged in -- except in those states that have adopted
18 a bill and keep arrangement or a zero compensation rate
19 for that traffic exchange.

20 Q. So Verizon -- and in those cases where there
21 is a per minute of use rate structure for local
22 switching, Verizon would pay AT&T that per minute of use
23 rate for each terminating minute of the call from
24 Verizon to the AT&T customer, correct?

25 A. (Mr. Gillan) Well, yes, because it's a

1113

1 reciprocal obligation for every minute that AT&T would
2 have Verizon terminate for it. AT&T would have to pay
3 Verizon the minute of use rate if one still exists. So
4 the reciprocal obligation would be that Verizon would
5 pay AT&T as well.

6 Q. Correct.

7 Are you familiar with the fight between the
8 ILEC's and the CLEC's regarding how a CLEC serving an
9 ISP, Internet service provider, should be compensated
10 for calls made to that ISP?

11 A. (Mr. Gillan) The one from like three years
12 ago, yes.

13 Q. And now people call their ISP, but ISP's
14 typically don't call their customers back; is that a
15 fair characterization?

16 A. (Mr. Gillan) Yes, but that has nothing to do
17 with this issue, because you would never use unbundled
18 local switching to serve an ISP. You use unbundled
19 local switching to serve regular residential and small
20 business customers who make and receive phone calls.
21 The ISP issue is unrelated to the question here.

22 Q. But we do agree that calls involving an ISP
23 typically only go one way, to the ISP?

24 A. (Mr. Gillan) Yes, but again, it has nothing
25 to do with unbundled local switching, which would never

1114

1 be used to serve an ISP.

2 Q. And during this debate, Verizon and the other
3 ILEC's were arguing that these types of calls, calls to
4 an ISP, should not be subject to the general reciprocal
5 compensation scheme established for local service; is
6 that your understanding, correct?

7 A. (Mr. Gillan) Yes, although I would say that
8 their general position was they were all in favor of a
9 high usage rate for switching until they had to pay it,
10 and then they reversed their position.

11 Q. So but AT&T was arguing and other CLEC's that
12 they should be getting the same reciprocal compensation
13 per minute of use rate established for local switching
14 for calls made to an ISP, correct?

15 A. (Mr. Gillan) I believe that's what they
16 believed the term reciprocal meant.

17 Q. So in 2001, the FCC issued a ruling regarding
18 compensation for calls made to ISP's, correct?

19 A. (Mr. Gillan) Yes.

20 Q. And in that decision, the FCC found that ISP
21 bound traffic would no longer be subject to the
22 reciprocal compensation rules applied to local traffic
23 and established a transitional program for that
24 compensation; is that --

25 A. (Mr. Gillan) That's my recollection.

1115

1 Q. All right. Now let's turn to what AT&T was
2 saying about the per minute of use rate structure around
3 the same time. You state first on -- in your direct,
4 which is Exhibit 802, strike that, it's 801, page 13,
5 and on line 13 you first talk about the introduction of
6 the 5ES in 1982, and then you go on to talk about the
7 dramatic increase in switch processor memory through
8 1998. Is that a fair characterization of what you say
9 on these pages?

10 A. (Mr. Chandler) Well, I will respond to that.
11 It doesn't specifically say processor memory, but yes,
12 generally that's what it says, that processor capacity
13 has increased to 2 1/2 million busy hour calling times.

14 Q. And you are referring to 1998 in particular?

15 JUDGE MACE: Again, you need to speak into
16 the microphone. Please make sure that your voice stays
17 at an even level so that we can hear. It's dropping
18 down and we can't hear what you're saying.

19 MR. CHANDLER: Okay.

20 JUDGE MACE: And please speak clearly.

21 MR. CHANDLER: Okay, I will keep it right
22 here.

23 BY MS. RONIS:

24 Q. And on line 16 on page 13, you are talking
25 about the increases in 1998?

1116

1 A. (Mr. Chandler) Yes.

2 Q. And your testimony doesn't talk about any
3 increases, dramatic increases since then, correct?

4 A. (Mr. Chandler) Well, the testimony does say
5 on line 17 that:

6 The further improvements to increase the
7 capacity beyond 2 1/2 million busy hour
8 call --

9 JUDGE MACE: Again, now I'm sorry, but when
10 you speak that quickly, it's really hard --

11 MR. CHANDLER: Okay.

12 JUDGE MACE: -- for the reporter --

13 MR. CHANDLER: Okay, I will --

14 JUDGE MACE: -- to hear what you're saying.

15 MR. CHANDLER: I will speak more slowly, I
16 apologize.

17 A. (Mr. Chandler) And so once again in line 17,
18 I state:

19 Further improvements to increase the
20 capacity beyond 2 1/2 million busy hour
21 calling times were reported -- were
22 reported that year.

23 BY MS. RONIS:

24 Q. That year being 1998?

25 A. (Mr. Chandler) That year reported 1998. And

1117

1 I will point out that if one goes to the Lucent web
2 site, you will see that the 5ESS processor capacity is
3 advertising 2.5 million busy hour calling times today.

4 Q. Now AT&T filed before this Commission in 1998
5 a version of the Hatfield model that showed a traffic
6 sensitive/non-traffic sensitive split of 70% and 30%;
7 are you aware of that?

8 A. (Mr. Chandler) That's correct.

9 Q. And that was filed in 1997?

10 A. (Mr. Chandler) That may be true, I would have
11 to check. That sounds about right.

12 Q. And in the Virginia proceeding that you
13 mentioned, AT&T filed testimony in 2001 with attaching a
14 model, the FCC synthesis model, that's also the same 70%
15 traffic sensitive, 30% non-traffic sensitive split,
16 correct?

17 A. (Mr. Chandler) That may well be true. I have
18 no knowledge of that proceeding.

19 Q. Would you accept that subject to check?

20 A. (Mr. Chandler) Yes.

21 Q. And in that proceeding also in direct
22 testimony, AT&T's witness, a different witness, proposed
23 a traffic sensitive/non-traffic sensitive split of
24 40%/60%; would you accept that subject to check?

25 A. (Mr. Chandler) Yes.

1118

1 Q. And in that same proceeding, the Virginia
2 proceeding, in rebuttal, would you accept subject to
3 check AT&T changed its split from 16% to 16% traffic
4 sensitive, 84% non-traffic sensitive?

5 A. (Mr. Chandler) I will accept that.

6 Q. Would you also accept subject to check that
7 on surrebuttal in that same proceeding, AT&T again
8 changed its split to 23% traffic sensitive and 77%
9 non-traffic sensitive?

10 A. (Mr. Chandler) I will accept that as well.
11 As I said, I have no awareness of that proceeding.

12 Q. But you didn't actually --

13 A. (Mr. Gillan) I think that mischaracterizes
14 AT&T's testimony. Although neither one of us were
15 involved in that proceeding, reading the order issued by
16 the FCC, I understood AT&T's position to focus on a
17 single piece of the switch that may have some
18 relationship to busy hour minutes, not usage, more
19 generally. And then followed from that a suggestion
20 that the commission consider recovering that on a usage
21 basis, and the percentages might have fallen out from
22 that, but I don't think it's fair to characterize it
23 from the perspective of the resulting allocation.

24 Q. But we are in agreement I think that the
25 overall result was the traffic sensitive/non-traffic

1119

1 sensitive splits I mentioned? Or you can check that if
2 you will accept --

3 A. (Mr. Gillan) I would certainly stipulate that
4 AT&T's position has been refined over a period of time
5 on this question, and that during the period of time it
6 was trying to allocate the cost between traffic and
7 non-traffic sensitive. Since that was an arbitrary
8 exercise, it tended to bounce around.

9 Q. Now turning to another subject, companies
10 hire switch engineers to determine how to deploy
11 switching in their network; isn't that correct?

12 A. (Mr. Chandler) I assume they still do that.

13 Q. And would you agree that one thing switch
14 engineers do before installing a new switch is analyze
15 expected usage in the calling patterns that they can
16 expect on that switch?

17 A. (Mr. Chandler) To the extent they do that
18 today, it's much, much less than they did in the past
19 when switches would exhaust real time capacity
20 routinely. They no longer do that.

21 Q. But you would agree that they still do it to
22 at least some extent?

23 A. (Mr. Chandler) I really would rather not
24 speculate. My -- well, go ahead.

25 Q. Would you agree then that switch engineers in

1120

1 determining what to buy will consider the type of switch
2 to buy, the number of peripherals to buy, the type and
3 capacity of the CM's which are communication modules I
4 believe?

5 A. (Mr. Chandler) It depends on the switch
6 architecture, there are switch architectures that have
7 communication modules, yes.

8 Q. But the --

9 A. (Mr. Chandler) And that --

10 Q. Go ahead.

11 A. (Mr. Chandler) You go ahead.

12 Q. But the switch engineer has to consider all
13 these factors in determining what to buy and how much to
14 buy, correct?

15 A. (Mr. Chandler) That task these days is
16 largely the providence of the switch vendor. As I said
17 in my summary, the typical -- the typical information
18 given by a carrier to a switch vendor is the number and
19 types of lines to be served, and the switch vendor
20 generally carries out most of the configuration task.

21 Q. Is the switch vendor considering usage and
22 calling patterns in determining what to give the
23 customer?

24 A. (Mr. Chandler) Well, to some extent. As I
25 also mentioned in my summary, the switch vendors will

1121

1 consider line usage, per line usage figures expressed as
2 traffic numbers, typically CCS, and use those values to
3 adjust concentration ratios on the switch, yes.

4 CHAIRWOMAN SHOWALTER: What's CCS?

5 MR. CHANDLER: I'm sorry, CCS stands for
6 seconds, call seconds, it's a typical measure of
7 telephone traffic used primarily in the United States.

8 A. (Mr. Gillan) I think we would all agree that
9 the switch manufacturer does design the switch so that
10 there's no usage consequence. They take that into
11 consideration so that when they design the switch that
12 there is no cost effect.

13 JUDGE MACE: I think I would like to go back
14 to the CCS concept and make sure that we have on the
15 record a definition of what that is. Could you discuss
16 that a little bit, give us a definition.

17 MR. CHANDLER: Sure. The standard traffic
18 unit as I mentioned used in the United States is again
19 CCS. 1 CCS is 100 seconds of usage typically during --
20 measured during the busy hour under whatever busy hour
21 definition might be in place. But in the simplest terms
22 possible, the 1 CCS represents 100 seconds or 1 minute
23 40 seconds of usage during the busy hour.

24 JUDGE MACE: Thank you.

25 BY MS. RONIS:

1122

1 Q. Well, let's turn again to Exhibit 801, which
2 is your direct testimony, page 20, lines 10 through 13,
3 and let me read it for the record:

4 Switches, like other equipment or
5 facilities, are constructed to have a
6 certain capacity. Not surprisingly,
7 switches with greater capacity cost more
8 on a per line basis than switches with
9 less capacity.

10 I read that correctly?

11 A. (Mr. Chandler) Yes.

12 Q. So you agree with me, don't you, that
13 customers and engineers buy different types, different
14 sizes of switches for their network? In other words,
15 there's not just one switch out there that serves all
16 needs?

17 A. (Mr. Chandler) That's correct.

18 Q. And would you agree that there are
19 differences among switches in things other than the
20 number of lines served by that switch?

21 A. (Mr. Chandler) Can you elaborate, that's a
22 vague question.

23 Q. Things like different processor sizes,
24 different CM capacities, those are all different factors
25 that go into a makeup of a switch?

1123

1 A. (Mr. Chandler) Yes, switches will have
2 different configurations.

3 Let me, as long as we're on the subject, let
4 me go back --

5 MS. RONIS: Can I object to this and have him
6 do it on redirect. I'm not sure what he's about to say,
7 but it doesn't sound like it's responsive to my
8 question.

9 MR. KOPTA: We have given witnesses in this
10 proceeding a great deal of liberty to explain in
11 response to my questions, I would ask that my witnesses
12 have the same liberty to explain in response to
13 Ms. Ronis's questions.

14 MS. RONIS: I guess it's the while we're on
15 the subject that threw me.

16 JUDGE MACE: Right, it's not clear to me that
17 what he was going to say was responsive to her question.
18 And we do give witnesses some latitude, but he appeared
19 to be finished with his answer, and I think I would like
20 to go on to the next question at this point.

21 BY MS. RONIS:

22 Q. Let's turn to Exhibit 801 again, page 4, this
23 is your direct testimony, and refer you to lines 14 and
24 15. And there you're stating that:

25 The modern switches are designed to

1124

1 reach capacity limits based on the
2 number of lines connected to these
3 switches, not the usage through them.

4 Did I read that correctly?

5 A. (Mr. Chandler) Yes.

6 Q. Now to determine the total number of lines to
7 serve by a given switch, the company will consider the
8 usage and calling patterns for each one of those lines,
9 correct, in determining the number of lines to buy?

10 A. (Mr. Chandler) No.

11 Q. So if there's 100,000 customers in a given
12 CO, will a company always buy a switch, one switch that
13 has 100,000 lines to serve those customers?

14 A. (Mr. Chandler) I would suspect that would be
15 the typical case, yes.

16 Q. Do you know if Verizon has more than one
17 switch in its -- in say the majority of its central
18 offices?

19 A. (Mr. Chandler) I suspect it does not have
20 more than one switch in most of its central offices.
21 Certainly in some wire centers there will be multiple
22 switches for reasons that may have nothing whatsoever to
23 do with capacity.

24 Q. In other words nothing to do with the usage
25 that they expect on each particular line?

1125

1 A. (Mr. Chandler) That's correct.

2 Q. Do you agree with me that a switch serving
3 28,000 lines could have more capacity, or strike that,
4 more usage than a switch serving 100,000 lines, more
5 usage running through that switch?

6 A. (Mr. Chandler) Do you want to talk about
7 usage in terms of holding time, busy hour call attempts,
8 feature activations, what's your measure of usage here
9 so I can answer your question?

10 Q. Call attempts and call holding periods.

11 A. (Mr. Chandler) Oh, it's very unlikely. It
12 could certainly happen mathematically, but I suspect
13 that that would be a pathological case.

14 Q. Well, you mentioned features, would higher
15 feature usage cause more call processing time and more
16 processor occupancy?

17 A. (Mr. Chandler) Yes, a processor has to do
18 more work to process features than if it doesn't process
19 features. But the point is that processor capacity is
20 so large in forward looking switches that even feature
21 activation does not exhaust real time. Manufacturers
22 make a point of this when they advertise their switches.
23 One can consult any of several Web sites where
24 manufacturers tout the increased capacities, both
25 traffic and real time, of their switches as greatly

1126

1 reducing the tasks one has to go through in sizing the
2 switch for commercial deployment. It just makes it
3 easier.

4 Q. Do you agree that the length of a call or
5 call length has an impact on usage?

6 A. (Mr. Chandler) No.

7 Q. Would you agree that the quantity of call
8 attempts have an effect on usage?

9 A. (Mr. Chandler) What do you mean has an effect
10 on usage?

11 Q. That it uses more processor capacity and more
12 switch fabric as I think you referred to.

13 A. (Mr. Chandler) Call attempts have no effect
14 on switch fabric. Switch fabric is not an issue.
15 Historically and currently switches just essentially
16 never exhaust switch fabric capacity, traffic capacity.

17 Q. So is it fair to say that the bottom line is
18 that you believe a flat rate switching structure is
19 appropriate because vendors now offer large switches
20 that can account for all possible anticipated usage in
21 that central office?

22 A. (Mr. Chandler) I wouldn't phrase the
23 statement that way. You said large switches. They will
24 provide switches with significant excess capacity to
25 handle anticipated usage, yes.

1127

1 A. (Mr. Gillan) And that is one of the reasons
2 why we're making this recommendation. I mean the
3 reality here is that Verizon does not pay for these
4 switches on a per minute of use basis. The check you
5 write the manufacturer doesn't go up or go down based on
6 the calling pattern of customers that you're serving.
7 The CLEC's are competing with Verizon for that same
8 group of customers. In order for the CLEC's to have a
9 nondiscriminatory rate structure and for you to be
10 fairly compensated, it's important that the CLEC
11 compensate you in a manner that's comparable to the way
12 you have incurred the cost and paid the manufacturer.

13 There is no degradation in value of the
14 switch as calling goes up and down. I mean if you go
15 buy used switching, they don't give you a discount
16 because it has high usage and it was used -- it wasn't
17 used much on Mother's Day, we'll give you a good price.
18 That's not how switches are priced, so the primary
19 reason we're recommending this rate structure is that it
20 is more cost based and more closely tracks how the --
21 how you also incur the cash cost for these switches than
22 the current rate structure.

23 Q. But you do agree that Verizon pays more for a
24 larger switch that its designed to account for larger
25 usage than a smaller switch that they have designed to

1128

1 account for lower usage?

2 A. (Mr. Gillan) And if that's true, the CLEC's
3 would compensate you more for capacity in that switch
4 than in a less costly switch. Your cost recovery is
5 more -- tracks more closely the way that you have
6 incurred the cost.

7 A. (Mr. Chandler) and by the same token, the
8 ILEC will spend more for a DLC system that serves high
9 traffic users than it does for a DLC system serving the
10 same number of relatively lower usage customers.

11 Q. So if the vendors decided to stop offering
12 the larger capacities and rolling it up into one price
13 and instead started pricing things in smaller increments
14 that Verizon would have to then update and purchase as
15 usage exhausted, then your position would change?

16 A. (Mr. Gillan) Well, if the vendors decided to
17 make their product less useful to you and more
18 expensive, then we would expect that there would be a
19 cost proceeding where those consequences would be
20 addressed. But as a practical matter, you know, let's
21 be real here, switch vendors are not going to be making
22 -- are not going to try and impose on you a rate
23 structure where you pay them based on the minutes of use
24 through these switches because you would not tolerate
25 it. And quite frankly, we can't tolerate it, CLEC's can

1129

1 not tolerate it either. It's not the way switching
2 costs are incurred.

3 Q. But do you agree with me then that your
4 argument boils down to the fact that the vendors have
5 decided to offer their product one way versus another
6 way?

7 A. (Mr. Gillan) I don't know if I would say that
8 it boils down to, but if a vendor is willing to sell you
9 something a certain way, then there's no reason for you
10 to try and peek behind their pricing to figure out what
11 their reasoning was. You don't do that for any other
12 input to the network. You don't -- when you put -- plug
13 into the cost of your telephone poles, if the vendor
14 decides to sell it to you on a \$10 per pole basis, you
15 plug into the model \$10 per pole. You don't sit there
16 and try and find out, well, why did the vendor charge me
17 \$10 per pole, shouldn't he have charged me \$4 per pole
18 plus \$6 per inch plus, you know, \$3 for water content
19 because that's the way his cost structure is and then
20 try and build that into your cost model. You just look
21 at the way the vendor sells it to you, and that's all
22 that this proposal is. There's no usage rate in what
23 you pay the vendor, we don't want to pay you a usage
24 rate when we can more accurately compensate you by
25 paying a flat rate per port.

1130

1 Q. Let's put aside for a minute whether
2 switching costs are traffic sensitive or non-traffic
3 sensitive and just assume there's a fixed bucket of
4 costs. So is it your position that a CLEC that uses
5 more of those resources should pay exactly the same as a
6 CLEC that uses less as a matter of rate structure?

7 A. (Mr. Gillan) Yes, because that is the way the
8 costs are incurred.

9 Q. And so --

10 A. (Mr. Gillan) All we are doing here is --
11 first of all, the switch is designed -- the switch is
12 serving a group of customers. The issue when you set
13 the price for unbundled local switching is that before
14 the ILEC was the only carrier in that switch providing
15 service to those customers. Now we're going to have a
16 world where there is more than just the ILEC's, so we
17 have to apportion the cost of that switch across the
18 carriers that are using it, and the most fair way to do
19 it is the way the costs are incurred for -- by the ILEC
20 with the manufacturer, which is on a flat rate basis.

21 Q. So just so I understand, so assume we have
22 just a fixed bucket of costs and we're trying to figure
23 out the best way, the most reasonable way to allocate
24 those among all the different users, you just disagree
25 that it would make sense for a CLEC using more of that

1131

1 resource to pay more?

2 A. (Mr. Gillan) There was no additional cost
3 incurred. To charge them more is to imply that there
4 was a justification to charge them more, and part of our
5 testimony is there is no such justification.

6 MS. RONIS: I have nothing further.

7 JUDGE MACE: Dr. Gabel.

8 CHAIRWOMAN SHOWALTER: Can I just follow, I
9 would like to just follow up on this very point.

10

11 E X A M I N A T I O N

12 BY CHAIRWOMAN SHOWALTER:

13 Q. My first question is, why is it relevant at
14 all one way or the other what or why the vendor sets a
15 price? From the vendor to Verizon is a unit price, am I
16 right, a switch; is that correct?

17 A. (Mr. Gillan) It ultimately boils down to a
18 unit price, but the price --

19 Q. Okay, but is that correct that there's a
20 unit, just a switch costs an absolute dollar amount?

21 A. (Mr. Chandler) Yes, the switch -- yes.

22 Q. All right. Now the vendor isn't allocating
23 the cost of the switch from the vendor to Verizon based
24 on lines, minutes, or anything else, is he, it?

25 A. (Mr. Gillan) Depending on how -- depending on

1132

1 how the switch is configured, the price that the
2 manufacturer quotes to the ILEC may vary. I think
3 that's a fair statement.

4 Dick.

5 A. (Mr. Chandler) Yes, I think it is.

6 Q. As from Verizon to a customer, whether it be
7 a retail customer or a wholesale customer, isn't the
8 question what is the most appropriate measurement to use
9 for allocating the unit cost that Verizon incurs, which
10 could be minutes or could be lines, maybe there's some
11 other possibilities?

12 A. (Mr. Gillan) Yes, with the following caveat.
13 I think it's important that whatever measure you use to
14 charge the wholesale customer it have cost
15 characteristics as close as possible to what the actual
16 cash price for that switch is that Verizon incurs. For
17 instance, usage is a bad proxy, is a bad mechanism for
18 among other reasons say from 19 -- I think it's 1990 to
19 about 2000, that ten year period, the usage per line
20 roughly almost tripples. In fact, from the time -- for
21 the usage that's in their cost study to the usage that
22 their ARMIS data shows for 2000, it's gone up from about
23 2,000 minutes per line to 2,700 minutes per line. If
24 you try to recover that price on usage, you have
25 revenues increase into Verizon even though there's

1133

1 really no change in their cost structure whatsoever.
2 Conversely, if they collapse, their cost structure
3 doesn't change either, whereas lines are a much more
4 stable base.

5 Q. All right, but aren't you just saying that
6 when Verizon is trying to make a decision of how many
7 switches it needs or what kind of switches it needs for
8 whatever reason, whether to serve its own customers or
9 CLEC's, that lines are more relevant to that decision
10 than minutes of use; is that what you're saying?

11 A. (Mr. Gillan) Yes, in very simple terms, yes.

12 Q. All right. So I guess it seems to me that
13 it's not because Verizon's relationship with the vendor
14 is based on lines, it's not, the vendor just has a price
15 for whatever it is. The issue is how do we take
16 Verizon's cost and allocate it out fairly to both CLEC's
17 and Verizon, and there's where you're arguing that lines
18 are a better measure than minutes; is that correct?

19 A. (Mr. Gillan) Yes, although I would point --
20 one of the points that Mr. Chandler made earlier on was
21 that as a practical matter when they sit down to order
22 the switch, they're telling the vendor -- the primary --
23 the primary variable they're telling the vendor they
24 want them to design around is these are the lines that
25 we're going to expect on the switch. So it's not just

1134

1 that we think it's a better allocator, it's also the
2 primary design variable.

3 Q. All right. So then one way to think about
4 this I think is what's the limiting factor when you go
5 to buy a switch? Is the limiting factor how many
6 minutes it's going to serve, or is the limiting factor
7 or largest factor lines, or maybe there's some other
8 things? Are you saying that lines are vastly more
9 important than minutes, so therefore we should only use
10 them?

11 A. (Mr. Chandler) Yes.

12 Q. Now what about this idea of allocation where
13 you say, well, when you look at what goes into the
14 pricing, there's an element of usage based limiting
15 factor so we should count it for so much, and then the
16 other proportion is lines, are you saying that's not
17 accurate because the minutes of use if it's relevant at
18 all is so small?

19 A. (Mr. Gillan) There would be two reasons that
20 I would say you wouldn't use it. First is that to the
21 extent that you are looking at usage, you're not looking
22 at usage generally. There's a particular point in time
23 that the usage is relevant, at the busy hour. Usage in
24 every other hour is completely irrelevant to that design
25 parameter. So even if you were to think about using a

1135

1 usage construct, it wouldn't be usage generally, it
2 would be busy hour usage, which nobody really has a
3 system in place to accurately bill.

4 And there is -- it is a misstatement to try
5 and correlate and say, well, since busy hour usage may
6 have some impact, then if I take costs and just spread
7 it over all minutes I have done something correctly.
8 Really all you have done is misprice 23 hours of the
9 day, or actually you have mispriced all 24, you are
10 overpricing 23, you are underpricing 1, and you have
11 really just made a -- you've made a bigger mess than you
12 started with. That said, even then I think the amount
13 of cost influenced by the busy hour is so small it isn't
14 a bogey worth chasing.

15 Q. Now you do agree though that you have to
16 design the system for peak usage; is that correct?

17 A. (Mr. Gillan) In essence though everything in
18 the telephone industry has to be designed for peak
19 usage.

20 Q. Now in the world of electricity, you know,
21 you throw on a plant at peak time, and so you can
22 actually see that peak hours cost more than other hours.
23 And you also have the ability if you want to, although
24 it's more difficult in electricity, to charge more for
25 that time. If, as a theoretical matter, not a practical

1136

1 matter now, if -- does it make economic sense barring
2 whatever transactional costs are involved to charge
3 customers, whether wholesale or retail, peak hour rates?

4 A. (Mr. Gillan) No, I wouldn't say so for --
5 there's a real difference between this and electricity,
6 and you touched on it. In electricity, as the peak hour
7 approaches, more capacity comes on line, right. So
8 there is a cost consequence at that peak on a going
9 forward basis that you're trying to tell consumers
10 about.

11 In this instance, you design a switch for the
12 peak ahead of time, and so long as -- and as Dick, as
13 Mr. Chandler put in -- explained in the testimony, so
14 long as the usage is always below that design criteria,
15 you're not bumping up against that top at all, and you
16 can't like bring that capacity on line only during the
17 peak period to serve it. What we have instead is a
18 group of customers now being served by different
19 carriers. I mean it's the same group of customers, and
20 whatever their peak load characteristics were, was
21 individually before when they were all served by
22 Verizon, is now still the same characteristic when
23 they're served -- collectively when they're served by
24 these individual companies.

25 So by each individual CLEC paying for the

1137

1 peak by -- in proportion to the number of lines it has
2 on the switch, you probably have the best estimate of
3 each CLEC's proportional responsibility for that peak
4 that you could have anyway. So you don't have the same
5 problem in electricity, you don't have the same cost
6 consequences kicking in.

7 Q. So you would say that a switch is more like a
8 transmission line, it's just there but it had better be
9 able to accommodate peak?

10 A. (Mr. Gillan) Yes, to put it into the electric
11 metaphor, that would be true.

12 Q. No, I won't get into that, because we're not
13 in an electricity proceeding, but of course it is highly
14 debatable whether you should have some kind of market
15 pricing of transmission in order to allocate it.

16 A. (Mr. Gillan) We don't have scarcity here
17 though. I mean if there's one thing that we know is
18 they got enough switching capacity. They're not bumping
19 against the limits, and it's the one place that's real
20 different than electricity. You don't have a scarcity
21 problem that you're trying to send price signals to
22 maybe shift a peak or change people's behavior. That's
23 not the issue here. It's really a question of what
24 should you pay for that fixed piece of investment or
25 what is the best and quite frankly the simplest way to

1138

1 go about charging for it.

2 Q. All right. Is a summary of your comments
3 that minutes of use is either indirectly or in a minor
4 way or theoretically relevant to total peak use, but
5 that lines are --

6 A. (Mr. Gillan) To complete that --

7 Q. -- vastly more relevant to figuring out a
8 fair way to allocate?

9 A. (Mr. Gillan) Yes, and on the -- and on the
10 peak point I would say that lines are just as good, if
11 not better, a predictor of what the peak demand would be
12 of any CLEC's individual, you know, group of customers
13 as just minutes of use throughout a month would be.
14 There's no reason to believe that minutes of use
15 throughout a month gives you any better predictive
16 ability as to what the peak responsibility of that group
17 of customers would be versus using lines. And we sure
18 know that lines are both simpler to bill, and they don't
19 carry with them into the retail marketplace the same
20 distortionary effects.

21 I think Mr. Spinks earlier said that we were
22 asking for this by justifying it by the fact that retail
23 rates are flat rate. We're not asking for that as a
24 justification, but we are pointing out that there's an
25 enormous downstream consequence to CLEC's paying for

1139

1 these switches on usage when the ILEC doesn't incur that
2 cost in a world where retail customers demand flat rates
3 and are becoming with every passing day with competition
4 more flat rate oriented. Time and distance are really
5 going away in telecommunication rate structures, both
6 retail and they should be going away in wholesale,
7 because the world is just a lot less time and distance
8 sensitive.

9 Q. In the example say of a CLEC who has a retail
10 customer who is using a line, one line for voice and DSL
11 and say leaving the DSL on all the time and there are
12 lots of minutes of Internet use happening over it. If
13 that is happening with great frequency or --

14 A. (Mr. Gillan) That actually --

15 Q. -- in the CLEC world, is it your view that
16 still line is a fair way to allocate the switch?

17 A. (Mr. Gillan) Yes, because if you think about
18 it from the network, in the example of the DSL line,
19 that Internet traffic is taken off before it gets to the
20 switch. That traffic never goes through the switch. So
21 the DSL example really has no bearing here. What you
22 have are lines that are connected to the switch to
23 provide dial tone to the customer, features, and voice
24 call routing. It's not -- it has nothing to do with
25 customers that get Internet service, and it has

1140

1 absolutely nothing whatsoever to do with this question
2 about Internet service providers having a lot of
3 reciprocal compensation minutes coming to them, because
4 that's not the customers that you use unbundled local
5 switching to serve.

6 Q. All right, and if I did the same example but
7 I did not -- if I were not talking about DSL but I was
8 talking about dial up, somebody who uses one line for a
9 lot of dial up, is your answer the same?

10 A. (Mr. Gillan) Yes, because the reality is that
11 the fraction of customers that are still on dial up, the
12 switches are accommodating that level of traffic, and it
13 seriously penalizes a CLEC from serving a customer who
14 uses dial up because they're paying for each individual
15 minute to go through that switch when Verizon doesn't
16 face that same cost, kind of cost penalty. So CLEC's
17 would be forced to ultimately move away from serving any
18 kind of customer with dial up even though there's really
19 no cost justification for the CLEC not to serve them.
20 The switch can handle it, there's no additional cost
21 consequence to Verizon, Verizon is fairly compensated,
22 the CLEC is paying a fair rate. If the customer wants
23 to use dial up in that situation, their decision to use
24 a CLEC versus Verizon shouldn't be impacted.

25 CHAIRWOMAN SHOWALTER: Thanks.

1141

1 JUDGE MACE: Dr. Gabel.

2

3 E X A M I N A T I O N

4 BY DR. GABEL:

5 Q. Mr. Gillan, I would like to begin by just
6 asking you to confirm, you were in the room today when
7 there was a discussion about long run costing
8 methodology; is that correct?

9 A. (Mr. Gillan) Yes.

10 Q. All right. And do I understand your response
11 to the questions from the Chair is that, well, the
12 capacity is in place, and therefore when there is
13 additional usage by a telecommunications company,
14 there's no additional cost incurred; was that your
15 testimony?

16 A. (Mr. Gillan) That would be part of it, but
17 maybe jumping ahead to your question, even in the long
18 run if you were expecting additional usage in the
19 future, the consequence would be perhaps a, most likely,
20 a higher per line cost from the manufacturer, and so the
21 long run pricing principle would be satisfied by
22 reflecting today the higher per line price. It wouldn't
23 say you go and change the rate structure. Just say if
24 there is a long run cost consequence in the form that
25 would be achieved, you reflect it in the price today.

1142

1 As a practical matter, we don't live in that
2 world, because there is -- I think there is substantial
3 capacity in existing switches, people are moving away
4 from voice networks onto data networks, and the price
5 we're establishing here is for a very important element
6 in a world where people buy POTS service, but it is a
7 decaying part of the market. I mean it's still
8 whatever, 90% today and it will be 80% next year and
9 it's going to take a long time for the POTS marketplace
10 to not be commercially significant, but it's not a
11 situation where we're going to see growing demand over
12 any foreseeable window here.

13 Q. As a matter of methodology, putting aside the
14 mechanics, as a matter of methodology, when the
15 Commission sets rates to reflect long run costs, should
16 the methodology be assuming that certain things already
17 exist and then base pricing decisions based upon what
18 already exists, or should the methodology be, well, we
19 have a clean slate, now let's identify the drivers that
20 result in costs that would be incurred by a firm that
21 starts with a clean slate?

22 A. (Mr. Gillan) It's the latter, but in that
23 world it would still be a flat rate price per line.
24 Just it would affect the level of that price per line.

25 Q. All right, then let's turn to that topic. Is

1143

1 it your representation that what Verizon pays is, to its
2 switch vendors, a rate per line; is that the nature of
3 the contract, or is the nature of the contract dependent
4 upon what equipment is needed on the switching machine?

5 A. (Mr. Gillan) I have not directly looked at
6 the Verizon contracts in this state. Every other
7 contract I have looked at is predominantly per line, and
8 then there would be some additional charges for like a
9 trunk port or some other equipment, but the driver is
10 the per line price. At no time, at no time is there a
11 usage charge.

12 Q. We had in this case marked as Exhibit 303 and
13 304 Verizon's response to AT&T Request 6.143. This is
14 where Verizon provided its support for how it calculated
15 the discount it receives relative to the retail price
16 for equipment on a switching machine. Did you review
17 that data response?

18 A. (Mr. Gillan) Not with so much specificity
19 that I can remember whether that was the number. We
20 looked at a number of data responses, and Mr. Chandler
21 looked at some as well independently.

22 Yes, we looked at this at least in summary
23 fashion.

24 Q. And is there anything in that response to
25 indicate that Verizon's payment is either on a per port

1144

1 basis or alternatively there's a different price for
2 each piece of equipment on a switching machine that it
3 acquires from its vendors? And it may -- if you look at
4 the cover response and the preceding page too.

5 A. (Mr. Gillan) This would appear to be the
6 price list of a variety of different pieces of
7 equipment.

8 Q. Would that suggest to you that Verizon's
9 contract is not on a per line basis?

10 A. (Mr. Gillan) No, not necessarily. I would
11 have -- my comment was that when you looked at the total
12 cost, what was the driver, it was predominantly per
13 line, not that there weren't other things that they got
14 charged independently for. But again, nowhere do you
15 see anything that's an ongoing recurring usage type cost
16 structure.

17 Q. When you say predominantly, what does -- does
18 predominantly mean that it's the plurality and that it's
19 20%, does it mean that it's 70%? And if it is the
20 latter -- well, I will just stop there.

21 A. (Mr. Gillan) I'm basing this after -- basing
22 this on the review of other contracts, not this invoice.
23 What this appears to be I guess is an invoice list more
24 than anything else. And other than conveying to you
25 that it's predominantly -- and I'm using that term

1145

1 because it was a term picked up by the Illinois
2 Commission, which was the first commission to issue a
3 flat -- to order flat rate pricing. I don't know how
4 much more detail I can go into without violating the
5 terms of the proprietary agreement in Illinois that
6 allowed me to review the contracts, so I'm trying to use
7 the terms that they disclosed publicly.

8 A. (Mr. Chandler) the documents I reviewed in
9 the document production on switching that we got from
10 Verizon in this docket typically showed that Lucent, for
11 example, would say, we will sell you these 5ESS switches
12 for these -- for the following wire centers to serve the
13 listed number of lines at a price. There's no mention
14 of usage whatsoever.

15 Q. But when that, in your example when Lucent
16 states that it's going to sell a switch for a certain
17 amount of money, that could be a sum of the components
18 that appear on this sheet, couldn't it, and it would not
19 necessarily suggest that Verizon's contract is on a per
20 line basis?

21 Or let me just be more specific. Is there
22 any evidence that you can cite that Verizon Washington
23 is buying switches on a per line basis as opposed to a
24 per piece of equipment basis as opposed to, for example,
25 paying \$50,000 for a digital trunk controller and \$40

1146

1 for a line card?

2 A. (Mr. Gillan) No, the only unequivocal
3 statement I can make is that they never pay for it on a
4 usage basis.

5 Q. All right, now that was just to make sure
6 that I understand.

7 Moving on to another area, in Exhibit 801TC,
8 this is your testimony of June 26, at page 18 to 25, you
9 have an extensive testimony of Qwest and Qwest
10 representations. Was this evidence regarding Qwest
11 introduced because of your anticipation that Qwest would
12 be part of this proceeding? I'm just curious why you're
13 referring to Qwest here.

14 A. (Mr. Gillan) Because of this testimony was
15 filed last year, and my understanding was last year this
16 case involved both Qwest and Verizon.

17 JUDGE MACE: I believe the issues regarding
18 Qwest were not removed until sometime in late 2003.

19 Q. And then finally I would like to turn to the
20 cross exhibits that were I guess first Cross Exhibit
21 10-43.

22 JUDGE MACE: I don't think that Ms. Ronis
23 referred to them at all, and it's not clear to me you're
24 going to offer them either at this point, but they were
25 marked 804C, and they included several responses to

1147

1 Verizon data requests, one of them being 10-43.

2 MS. RONIS: I do intend to offer those
3 exhibits.

4 JUDGE MACE: All right, do the witnesses have
5 copies of those?

6 MR. GILLAN: Yes.

7 MR. CHANDLER: Yes.

8 DR. GABEL: Actually, let me begin with Cross
9 Exhibit 10-68, I'm sorry.

10 CHAIRWOMAN SHOWALTER: Page 7.

11 DR. GABEL: Yes, page 7.

12 BY DR. GABEL:

13 Q. At page 7 you're discussing how you
14 determined Verizon's switching cost to be different than
15 you have seen in other jurisdictions, and in response to
16 this request you provide support at Data Request 10-43;
17 is that correct?

18 A. (Mr. Chandler) I believe that's correct,
19 yes.

20 Q. Now turning to 10-43 and also having in mind
21 10-68, when you're making this comparison, are you
22 comparing installed, furnished, and equipped prices with
23 installed, furnished, and equipped prices, or are you
24 comparing -- or what assurance can you provide for the
25 record that you're doing an apples to apples comparison

1148

1 here?

2 A. (Mr. Chandler) As I recall, and I don't have
3 all the surrounding pages, in the response to 10-43 that
4 these were installed, furnished, and equipped, subject
5 to check.

6 A. (Mr. Gillan) As sort of further evidentiary
7 background of that, if you compare the rate that is
8 being proposed principally by Mr. Mercer to the rates
9 established by the other state commissions and the
10 Wireline Competition Bureau, which is in I guess the
11 last round of testimony, you see that they fall in a
12 pretty narrow range to begin with, and the rate that
13 we're proposing falls I think exactly at the mid point
14 of that range. Although, you know, that wasn't how it
15 was calculated, it was just I went back and compared it
16 to these other rates for additional validation.

17 Q. Okay.

18 Lastly at page 8 you refer to Exhibit 10-69,
19 and here you refer to Teresa Million's showing actual
20 Qwest switching purchases for Arizona at, and this is
21 not confidential apparently, \$55 per line. Do you know
22 if Ms. Million then included additional investments for
23 software purchases?

24 A. (Mr. Chandler) Not in the exhibit I saw. I
25 don't know that she -- I don't know that she did or

1149

1 didn't.

2 Q. Do you know when you're drawing a comparison
3 between the Verizon number that you referred to at 10.68
4 and the numbers that you represent for these other
5 states, do those other state numbers include all of the
6 software that would be included in the number produced
7 by the Verizon model such as a software right to use
8 fee?

9 A. (Mr. Gillan) The rates in the other states
10 were the lock, stock, and barrel price, so they would
11 have included all the right to use fees and all the
12 other costs associated with local switching. Now that
13 isn't to say that the ILEC would agree with that
14 statement, but it's the finding of those state
15 commissions and the Wireline Competition Bureau, and I
16 don't actually believe that the rate level was really
17 that big a dispute in those states.

18 Q. Okay. And, Mr. Gillan, your representation
19 applies equally to Arizona?

20 A. (Mr. Gillan) No, only to the rates adopted by
21 the state commissions.

22 DR. GABEL: All right, thank you.

23

24

25

1150

1 E X A M I N A T I O N

2 BY CHAIRWOMAN SHOWALTER:

3 Q. That was going to be my follow-up question.

4 You named five states plus the Wireline Competition

5 Bureau, and the five states are Minnesota, Utah,

6 Illinois --

7 A. (Mr. Gillan) Indiana and Wisconsin.

8 Q. Right, and are there any states since the
9 Illinois decision that have adopted a per minute
10 structure?

11 A. (Mr. Gillan) Yes, yes, only knowing states I
12 was directly involved in would have been Texas and Ohio
13 and Arizona.

14 Q. Where the Commissions did adopt some kind of
15 price at least based on part on minutes of use?

16 A. (Mr. Gillan) Yes.

17 Q. Okay.

18 A. (Mr. Gillan) And let me make -- these are
19 the states that I'm aware were confronted with a choice
20 of having a flat rate versus including a usage rate.
21 And, you know, like everything else you never bat 1,000.
22 There were five state commissions that adopted it plus
23 the Wireline Competition Bureau. You would be the first
24 state to I think address this issue since the Virginia
25 arbitration decision came out, because one of the

1151

1 arguments that had historically been made in the state
2 proceedings was that the FCC rules don't allow it, and
3 that argument of course can no longer be valid given the
4 Wireline Competition Bureau adopting a \$5 rate
5 structure.

6 Q. But only at the Wireline Competition Bureau
7 level, not the FCC level; is that issue on appeal to the
8 whole FCC?

9 A. (Mr. Gillan) I think so, but to tell you the
10 truth, I don't really know. I -- my understanding is --
11 my walking around understanding is that that's a settled
12 issue. Now that doesn't mean that there isn't a
13 procedural step open, but there's -- to my knowledge, I
14 have not heard of any real movement in that issue.

15 CHAIRWOMAN SHOWALTER: Thank you.

16 JUDGE MACE: Commissioner Hemstad.

17 COMMISSIONER HEMSTAD: I don't have any other
18 questions.

19 JUDGE MACE: Commissioner Oshie.

20 COMMISSIONER OSHIE: And I don't have any
21 questions of the panel, thank you.

22 JUDGE MACE: Ms. Ronis.

23 MS. RONIS: No more questions.

24 JUDGE MACE: Mr. Kopta.

25 MR. KOPTA: I have no redirect, thank you.

1152

1 JUDGE MACE: And does Verizon offer that
2 Cross Exhibit 804C?

3 MS. RONIS: Yes, we would like to move that
4 into evidence.

5 JUDGE MACE: Is there any objection to the
6 admission of that exhibit?

7 MR. KOPTA: No objection.

8 JUDGE MACE: Thank you, gentlemen, you're
9 excused.

10 (Recess taken.)

11 (Witness STEVEN E. TURNER was sworn.)

12 JUDGE MACE: All right, please be seated.

13 Before we actually begin with the witness, I
14 think we have two new attorneys on board who have to
15 introduce themselves at this point in time. If you
16 would begin, please, Mr. Richardson.

17 MR. RICHARDSON: Bill Richardson from Wilmer
18 Cutler Pickering Hale & Dorr, LLP.

19 MS. STEELE: And Mary Steele, Davis, Wright,
20 Tremaine, representing AT&T in this proceeding.

21 JUDGE MACE: Thank you.

22 Are you ready to present Mr. Turner?

23 MS. STEELE: I am, Your Honor, yes.

24 JUDGE MACE: Go ahead.

25

1153

1 Whereupon,

2 STEVEN E. TURNER,

3 having been first duly sworn, was called as a witness

4 herein and was examined and testified as follows:

5

6 DIRECT EXAMINATION

7 BY MS. STEELE:

8 Q. Mr. Turner, will you state your full name and
9 your business address for the record, please.

10 A. Steven E. Turner, and my business address is
11 Kaleo, which is K-A-L-E-O, Consulting.

12 JUDGE MACE: I think you need to put your
13 microphone on. It's on when the button is raised.

14 There you are.

15 THE WITNESS: Thank you.

16 JUDGE MACE: And speak right into it.

17 A. And my address is 2031 Gold Leaf Parkway,
18 Canton, Georgia 30114.

19 BY MS. STEELE:

20 Q. And on whose behalf are you presenting
21 testimony here today?

22 A. I'm testifying on behalf of AT&T
23 Communications of the Pacific Northwest, Inc.

24 Q. Do you have in front of you Exhibit 751,
25 which is your rebuttal testimony, as well as Exhibits

1154

1 752, 753, 754, 755, 756, and 757, which are exhibits to
2 that testimony?

3 A. Yes, I do.

4 Q. And was this testimony prepared by you or
5 under your direction?

6 A. Yes, it was.

7 Q. Do you have any corrections to make to the
8 testimony?

9 A. Just one on page 30, line 1, the number
10 1.1144 should be changed to 1.1695.

11 JUDGE MACE: I need to have you repeat that,
12 if you would.

13 THE WITNESS: The number on line 1, page 30,
14 should be changed from 1.1144 to 1.1695.

15 JUDGE MACE: Thank you.

16 BY MS. STEELE:

17 Q. And if you were asked the questions that are
18 in your testimony today, would your answers be the same?

19 A. Yes, they would.

20 MS. STEELE: I would like to move for the
21 admission of Exhibits 751 through 757.

22 MR. RICHARDSON: No objection.

23 JUDGE MACE: I'm sorry?

24 MS. STEELE: I just moved for the admission
25 of Exhibits 751 through 757.

1155

1 JUDGE MACE: Any objection to the admission
2 of those proposed exhibits?

3 MR. RICHARDSON: No objection.

4 JUDGE MACE: I want to indicate for the
5 record that 751, 753, 754, 755, and 756 have a
6 designation C indicating they're confidential. I'm
7 assuming that that comports with your designation.

8 MS. STEELE: Yes, it does.

9 JUDGE MACE: I will admit those exhibits.

10 BY MS. STEELE:

11 Q. Mr. Turner, do you have a brief summary of
12 your testimony to give?

13 A. Yes, I do.

14 JUDGE MACE: Mr. Turner, I will give you a 30
15 second warning if you get to that point.

16 THE WITNESS: Thank you.

17 A. Good afternoon. The testimony I provided
18 addresses the specific issues that I found related to
19 the VzCost and VzLoop cost models. The focus of my
20 attention, as my testimony spells out though, is related
21 to the VzLoop model, which produces the investments for
22 the loops in Verizon's cost filing that they have made
23 here. With respect to VzLoop, I found three main
24 problems that I address.

25 First was related to the material and

1156

1 placement costs that Verizon used. These are inputs
2 into their model. I do not change all of these values.
3 What I tried to do is to line up the values that were in
4 Verizon's filing side by side with those that are being
5 sponsored by Mr. Dean Fassett, who is the witness for HM
6 5.3, the inputs in this proceeding. And then based on
7 looking at places where there were significant
8 deviations, I used the inputs that were being sponsored
9 by Mr. Fassett. But I did not make changes every place,
10 instead just focusing on areas where there were
11 significant differences.

12 Secondly, there were a series of what I
13 characterized as network modeling and input related, or
14 not input, but modeling related issues. And just to
15 briefly go through those, one was that Verizon's model
16 as it's constructed relies on its embedded network
17 configuration, which we find cause it to produce
18 inefficient and therefore overstated costs in certain
19 instances. Secondly is that as I described in my
20 testimony, there are a series of locations in their
21 network where Verizon even acknowledges that they have
22 erroneously placed SAI's, and as a result of that it
23 leads again to overstated cost.

24 Third is what I have described as overlapping
25 and inefficient distribution areas. I had a diagram

1157

1 where I kind of talked through this issue, but it's a
2 situation where if Verizon had chosen to, they would
3 have identified more efficient boundaries for their
4 distribution areas in certain instances.

5 Fourth is that Verizon erroneously places DLC
6 where it's clearly not necessary. I have had the
7 opportunity to continue investigating that, and we found
8 that there's actually coding errors in the model that
9 contribute to that problem, caused a significant
10 placement of DLC that's unnecessary.

11 And then finally I address key engineering
12 inputs, this is different from the material and
13 placement inputs, and have provided for the Commission's
14 review alternative values such as for distributional
15 cable sizing of the fiber copper cutoff point of 18,000
16 feet.

17 JUDGE MACE: I'm sorry, Mr. Turner, your time
18 is up.

19 THE WITNESS: Okay, thank you.

20 MS. STEELE: Mr. Turner is available for
21 cross-examination.

22 JUDGE MACE: Mr. Richardson.

23

24

25

1158

1 C R O S S - E X A M I N A T I O N

2 BY MR. RICHARDSON:

3 Q. Good afternoon, Mr. Turner.

4 A. Good afternoon.

5 Q. I would like to begin by focusing on
6 something that I don't think you included in your
7 summary, and that's the early part of your testimony
8 where you're describing --

9 JUDGE MACE: Is your microphone on,
10 Mr. Richardson?

11 MR. RICHARDSON: I believe it is.

12 JUDGE MACE: You need to speak right into it,
13 and could you project a little bit, please.

14 MR. RICHARDSON: Certainly.

15 JUDGE MACE: Thank you.

16 BY MR. RICHARDSON:

17 Q. Mr. Turner, I would like to begin with the
18 portion of your testimony where you describe VzCost,
19 VzLoop, and some claims you make about the complexity of
20 those. First of all, I would like to in this discussion
21 clarify that I will be talking about VzCost sometimes
22 and VzLoop sometimes, can you just describe briefly your
23 understanding of the difference between the two?

24 A. The way that I use those terms is that VzCost
25 is effectively a package, if you will, that brings

1159

1 together investments from a variety of areas, applies
2 cost factors to those investments, and ultimately
3 converts them then into recurring rates that would be
4 applicable based on the investments and factors applied
5 to them for a variety of elements.

6 VzLoop is one of what Verizon refers to as an
7 element calculator that develops the underlying
8 investments that would go into VzCost. And as part of
9 that, it makes network modeling decisions and applies
10 placement and material cost and engineering factors in
11 coming up with those determinations. In some pieces of
12 documentation, Verizon includes VzLoop as being a part
13 of VzCost. I have tried to be clear in my testimony to
14 distinguish between the two, not that you may not wrap
15 them up in some way, but they seem to be in my opinion
16 clear and distinct parts of the modeling environment
17 that Verizon's using.

18 Q. And I would like to ask you have you ever
19 previously developed or reviewed any UNE cost models
20 where your role involved the loop costs?

21 A. You said developed or reviewed?

22 Q. Yes.

23 A. Yes, I have done so.

24 Q. And which ones were those?

25 A. I provided in response to discovery to

1160

1 Verizon a whole series of models that I worked on, but
2 specifically related to loops it would be the LoopCAT,
3 generally spelled L lower case O-O-P and then capital C,
4 capital A, capital T, the LoopCAT cost model. It's a
5 model used by SBC to develop loop cost for a variety of
6 loop types, and I have provided testimony and
7 restatements of that model in several proceedings in
8 Texas as well as proceedings in California, Illinois,
9 Michigan, Indiana, Ohio, and I'm currently working on a
10 filing for Wisconsin.

11 Q. Mr. Turner, I believe you're referring to
12 your response to a data request provided by Verizon
13 which has been pre-marked as Exhibit 758; is that
14 correct?

15 A. I didn't know the marking, but it's the
16 response to Request Number 10-1.

17 Q. And in that response you provided a chart
18 listing all of your experience for ten years in various
19 cost models, correct?

20 A. That's correct. I believe it extends beyond
21 that, because the question didn't specify a time period,
22 but it provided the modeling experience that I have had.

23 Q. And LoopCAT is addressed at the bottom of the
24 second page of that chart, correct?

25 A. Yes, it goes from the bottom of the second

1161

1 page and extends I believe up to the top of the third
2 page.

3 Q. So is it correct to say that of all these
4 models you have had experience developing or reviewing,
5 the only one in which your role extending to loop costs
6 was the LoopCAT model?

7 A. No, that's not correct.

8 Q. Maybe I misunderstood your statement before,
9 which other ones?

10 A. In terms of modeling related to loops and
11 specific to this response, it would also include for
12 instance the DS0 or DS1 building entrance tool. This
13 was doing evaluations of the costs associated with
14 deploying loops into large buildings and the placement
15 of equipment to provide DS1 loops in those buildings.
16 It's not in the sense of a TELRIC cost model, but if
17 your question is more general to other areas where I
18 have done work with loop related costs, I would extend
19 it there as well. If it's specific to UNE proceedings,
20 then it would be LoopCAT where I have worked in all the
21 states that I identified for you earlier.

22 Q. And your experience with the DS1 building
23 entrance tool, was that confined to the high capacity
24 loops?

25 A. Yes, it was DS1 and above loops.

1162

1 Q. So were there any other of these models where
2 you developed or reviewed the model and your role
3 extended to loop costs other than UNE cases?

4 A. Yes, on page 3 of this document, the next to
5 last line, the AT&T impairment analysis model, a portion
6 of that model was similarly evaluating the cost to
7 provide high capacity loops into customer locations, and
8 I provided development input into the cost calculations
9 for that model.

10 Q. So that was again also limited to high
11 capacity loops?

12 A. That would have been in that particular case
13 DS1 and above loops.

14 Q. And for what purpose were you providing that
15 analysis?

16 A. In that particular case it was related to the
17 impairment proceedings, and part of the impairment
18 proceedings had to do with the continued availability of
19 DS1 loops and evaluating on a potential deployment basis
20 whether or not DS1 loops could be served by CLEC's on
21 their own and what that cost would be.

22 Q. So did it involve identification of the cost
23 of providing the service?

24 A. Yes, it did.

25 Q. And was that filed in any proceeding?

1163

1 A. I do not know.

2 Q. Now focusing again on LoopCAT, your chart
3 identifies in the last column the model language, and
4 that as I understand it was -- well, can you tell me
5 what model language that was written in?

6 A. LoopCAT?

7 Q. Yes.

8 A. I guess if you're very precise, what I tried
9 to include here was both the model and/or the language
10 that would be used, but they, LoopCAT and SBC's modeling
11 environment, relies on Excel, Access, and then some
12 Visual Basic code.

13 Q. Now you say Visual Basic others at the top of
14 page 3.

15 A. There's a preprocessing section of LoopCAT
16 that I wasn't sure of the code that it's written in, so
17 I put others because I couldn't specify what it was.

18 Q. Now have any of these cost models that you
19 have identified here been written in Pascal?

20 A. Well, to the extent that I have identified a
21 model language, there is none identified as Pascal.
22 There is some here that are identified as unknown, and I
23 can't answer the question as to whether they were
24 written in Pascal or not.

25 Q. Why wouldn't you know whether they were or

1164

1 weren't written in Pascal if you developed or reviewed
2 them?

3 A. My review of the models may not -- in some of
4 these cases did not extend to reviewing of actual code.
5 It would have been reviewing algorithms, verifying the
6 methodology for calculating costs in doing that,
7 replicating the calculations outside the model to see if
8 it complied with the algorithms that were described, and
9 so in some cases I was not required to actually review
10 code.

11 Q. Were there other members of your team who had
12 that responsibility?

13 A. It would vary depending on the particular --
14 the particular project.

15 Q. Well, in any of these projects, was there
16 somebody else on your team that had the responsibility
17 for reviewing the code?

18 A. The only ones that have unknown related to
19 them are Costprod, SCIS, and CCSCIS. I'm fairly
20 confident for Costprod the answer would be there was
21 nobody else that was responsible for that. I did all
22 the validation for those algorithms outside the model
23 without reviewing the code. For SCIS, the team that we
24 had included one of the primary developers for SCIS, and
25 so I wasn't responsible for reviewing the code. The

1165

1 person on our team that had that firsthand experience,
2 I'm not sure if she did or not, but she would have been
3 more centrally involved in that than I would. As for
4 CCSCIS, the nature of the review there did not require
5 review of the code.

6 Q. Now addressing VzLoop, VzLoop is written in
7 Pascal; is that correct?

8 A. That's correct.

9 Q. Have you ever reviewed the code for VzLoop?

10 A. Yes, I have.

11 Q. When did you first do that?

12 A. I started reviewing the code probably as far
13 back as the fall of 2003.

14 Q. Was that in connection with this proceeding?

15 A. Yes, it was.

16 Q. So you had available to you the code for
17 VzLoop in this proceeding in the fall of 2003?

18 A. I think we did whenever we got it, and that's
19 what I recall sitting here right now, that's when I
20 started reviewing it. I mean version 7 of the code,
21 which is what I have spent most of my time with we did
22 not receive until you filed a, you meaning Verizon,
23 filed a supplemental filing. So version 7, which is
24 what I have spent most of my time with, would have been
25 whatever date you ultimately filed your revised filing.

1166

1 Q. Now version --

2 A. But I thought there was a version 6 code that
3 you provided, but that's per my recollection.

4 Q. Okay. Would you agree subject to check that
5 in Verizon's June 2003 filing there was included a
6 commented version of the source code for version 6?

7 A. I mean subject to check. I don't have any
8 reason to question that.

9 Q. Now do you recall a motion to strike the
10 VzCost model that was filed by AT&T in September of
11 2003?

12 A. Generally I do.

13 Q. And you and Mr. Cook co-authored a
14 declaration in support of that motion, did you not?

15 A. That's correct.

16 Q. And did you state in that declaration that
17 you had not been provided the source code for VzLoop?

18 A. I think the context of -- well, I don't have
19 the declaration in front of me. If you want to present
20 it to me, I can confirm --

21 JUDGE MACE: If you have the declaration, you
22 should show it to him at this point so he can review it.

23 A. And where specifically were you making the
24 reference to?

25 Q. I'm referring to Paragraph 6, and I will just

1167

1 read it, and I will give it back to you.

2 A. Okay.

3 Q. (Reading.)

4 The design of the model also makes

5 changing it extremely difficult.

6 Verizon has not provided the source code

7 for the model making it impossible to

8 determine whether the logic inside the

9 model matches the documentation provided

10 by Verizon.

11 A. That helps to clarify the context. What

12 Verizon had provided was annotated source code, and it

13 was not the source code that was the underlying code

14 that was in the model. Annotated source code, what I

15 mean by that is it was snippets of code interlaced with

16 comments about how particular portions of the code

17 worked, so there was no ability -- first of all, we

18 didn't even have the complete code, but there was also

19 even if we had no ability to compile that code and

20 confirm in fact that it matched what the documentation

21 in the annotated code that we received. That was the

22 context of the position we were outlining here. Because

23 the context was is we were anticipating that we would

24 need to make changes to the code.

25 Q. So then it would have been more accurate to

1168

1 say you have received some but not all of the VZ source,
2 VzLoop source code?

3 A. No, at that time we had not received the
4 source code. We had what is called, I described it
5 already, it's called annotated source code, but it was
6 not a complete set of source code.

7 Q. Now do you recall when you received version 7
8 source code for VzLoop?

9 A. Yes, we did receive source code with that.

10 Q. And was that with the filing in January?

11 A. Subject to check. It was with your
12 supplemental filing.

13 Q. Now you have been retained by AT&T in the now
14 pending California case involving Verizon's UNE rates;
15 is that correct?

16 A. That's correct.

17 Q. And in that case Verizon is also now using
18 version 7 of VzLoop, correct?

19 A. That's correct.

20 Q. And in that case did AT&T recently ask
21 Verizon to make a change in the VzLoop code?

22 A. Yes, we wrote a letter to Verizon outlining a
23 coding error that we found, asked that Verizon either
24 allow us to make the change ourselves or to -- and provide
25 us the environment to be able to do that or

1169

1 alternatively to give us a date by which Verizon would
2 make the correction.

3 Q. And correct me if I'm wrong, but that
4 involved the way in which VzLoop calculates the
5 so-called economic crossover in which is cheaper, to
6 place copper or to place fiber fed DLC's.

7 A. That's correct.

8 Q. And the error, is this correct, was that in
9 certain circumstances that comparison led to a negative
10 value?

11 A. That's correct, and in the denominator of the
12 calculation you could in certain circumstances have a
13 negative result, which then when compared to a footage
14 would always then place DLC. And so we identified that
15 as a problem and then provided an alternative correction
16 for it.

17 Q. And you say we identified that as a problem,
18 who identified that problem?

19 A. The letter that you received, I wrote that
20 letter for AT&T with the exception of probably the
21 opening and closing. The people who did the analysis of
22 the model to find that error was myself working in
23 conjunction with Brian Pitkin.

24 Q. And he is also an expert in the California
25 case for AT&T; is that correct?

1170

1 A. Yes, he is.

2 Q. And who among your group first identified
3 this error?

4 A. Mr. Pitkin and I did. What we were doing was
5 basically taking the calculations in the model and
6 reproducing them in Excel and tried to reconstitute the
7 total DLC investment in a wire center. And once we were
8 able to do that, we determined that the reason we were
9 getting these DLC's that were so close to the wire
10 center was that, in particular related to underground
11 cable, the denominator of the crossover calculation was
12 negative, but Mr. Pitkin and I found that together.

13 Q. And when you say you were working together,
14 was one of you primarily responsible for this in the
15 sense of spending the most time on it?

16 A. I probably was primarily responsible. I had
17 spent a great deal of time replicating the DLC
18 investments in preparation of my testimony here in
19 Washington, and so I already knew virtually all of the
20 calculations that had to be made to replicate Verizon's
21 calculations out of version 7. The one piece that we
22 principally worked on was actually the allocation
23 between business and residential. Once a DLC investment
24 calculation is made, there is an allocation that is then
25 done. But I would say if you had to pick one or the

1171

1 other of us, I would say it was probably primarily me.

2 Q. Has Mr. Pitkin had experience in Pascal?

3 A. I don't know his specific experience. I have
4 had direct training in Pascal and relied on that in my
5 code review, as I provided in discovery to Verizon.

6 Q. Has, to your knowledge, has Mr. Pitkin
7 developed or reviewed any models written in Pascal?

8 A. Other than the representation made in
9 Verizon's testimony that Mr. Pitkin has, I have not been
10 told that by Mr. Pitkin.

11 Q. Did you participate for AT&T in the Verizon
12 Virginia UNE case before the Wireline Competition
13 Bureau?

14 A. Yes, I did.

15 Q. Was your role with respect to the interoffice
16 transport portion of the case?

17 A. Yes, it was.

18 Q. Did Mr. Pitkin have responsibility for the
19 loop portion of the case?

20 A. There was a very large team that worked on
21 the loop portion. I believe Mr. Pitkin was a part of
22 that team.

23 Q. And he sponsored the modified synthesis model
24 on behalf of AT&T, did he not?

25 A. I do not know.

1172

1 Q. You're not aware of whether he sponsored the
2 loop model in the case you were responsible for the
3 transport portion of?

4 A. No, I don't recall specifically who was. My
5 recollection actually was that there was a team of
6 people. Mike Baranowski may have been a part of that
7 team as well as other people, but I don't recall
8 specifically Mr. Pitkin's role sitting here right now
9 versus somebody else's role.

10 Q. Do you know whether the modified synthesis
11 model was written in Pascal?

12 A. Only the representations that have been made
13 in Verizon's testimony that it is, but I did not have
14 firsthand knowledge that it was or was not. I have
15 never been asked to review that model.

16 Q. Now coming back to the California proceeding,
17 did Verizon make a change in the code of VzLoop version
18 7 in response to AT&T's letter?

19 A. Yes, after a bit of back and forth Verizon
20 did ultimately agree to make the change. I believe it's
21 now referred to as version 7a of the model.

22 Q. Now I would like to direct your attention to
23 page 20, I'm sorry, what was page 22 before the -- I'm
24 sorry, it should be just a second. I have the
25 interlineated version, so I need to check my page

1173

1 numbers, I'm sorry.

2 Mr. Turner, if you would look at really the
3 last Q&A in your testimony, it's page 22 of the
4 interlineated version, but the last question before
5 section 3:

6 What is your recommendation for this
7 Commission with regard to the usefulness
8 of VzCost in a TELRIC proceeding?

9 JUDGE MACE: Page 22 in our version I
10 believe.

11 Q. Do you have that question and answer before
12 you?

13 A. Yes, I do.

14 Q. Now the next to the last sentence of that
15 paragraph states:

16 It is impossible, however, to understand
17 or change the loop model that is the
18 heart of the cost model itself.

19 Now you're referring to VzLoop there, are you
20 not?

21 A. Yes, I am.

22 Q. But in the California instance that we have
23 identified, AT&T did understand how the VzLoop code
24 handled economic crossover, did it not?

25 A. Yes.

1174

1 Q. And Verizon changed it for AT&T, did it not?

2 A. It did. That was, of course, after, and I
3 have quoted extensively from Verizon's positions
4 outlined at the California workshop, but that agreement
5 to change the model was after the time that I filed this
6 testimony. And it was with a considerable amount of
7 back and forth between Verizon and the joint CLEC's in
8 California before Verizon would agree to do it. The
9 fundamental nature of the model is that it's -- it is I
10 would now say virtually impossible, but Verizon will
11 make the change if you go to them and ask and cajole and
12 work with them, they -- you will make the change.

13 Q. Well, I believe that AT&T has designated
14 those letters as cross exhibits for the panel tomorrow,
15 and I'm sure we'll go into that tomorrow.

16 Have you ever sponsored a cost model in which
17 you were requested to make a code change?

18 A. Yes.

19 Q. Where was that?

20 A. California.

21 Q. And what model was that?

22 A. It was the AT&T/MCI collocation cost model.

23 Q. And did AT&T agree to make those changes?

24 A. Yes, they did.

25 Q. Who asked them to make the changes?

1175

1 A. In that particular case it was the California
2 Public Utilities Commission.

3 Q. Did any of the parties in the proceeding
4 prior to that time ask AT&T to make changes to the
5 model?

6 A. I can't recall.

7 Q. Did you make any changes at the request of
8 any party in that proceeding?

9 A. I'm assuming by party you mean other than the
10 California Public Utilities Commission.

11 Q. Correct.

12 A. Not to my knowledge. I mean there were
13 filings made using that model by Verizon and by SBC that
14 both made changes to the model. The nature of those
15 changes were what I would characterize as fairly
16 straightforward, investment calculation modifications
17 that anyone familiar with Excel would be able to handle
18 fairly easily.

19 The change that was asked for by the
20 Commission was the ability to easily toggle between
21 setting collocation charges as a recurring charge or
22 nonrecurring charge, and the nature of that required a
23 more comprehensive change throughout the model, and so
24 the Commission asked for us to do that before the next
25 round of proceedings took place in California so that

1176

1 the parties would be able to easily represent what their
2 positions were as to whether something should be
3 recurring or nonrecurring.

4 Q. But you don't recall any party in the
5 proceeding during the pendency of the proceeding asking
6 you to change anything in the code of that collocation
7 model?

8 A. My recollection is that proceeding was
9 approximately five years ago, and so it's possible
10 someone asked. But to my knowledge, I don't recall a
11 request coming from a party for changes to be made to
12 the model.

13 Q. If a party had asked you or would ask you now
14 as a proponent of a cost model to make a change in the
15 code, what would your position be in terms of the
16 considerations that would go through your mind?

17 A. Well, the circumstances would depend on what
18 kind of change in the sense that if it was an active
19 proceeding and our model, as it was in California, was
20 the model that was being used by the parties, we felt we
21 had an obligation in that particular situation to make
22 changes to the model so that Verizon and SBC and the
23 Commission Staff would be able to make the changes that
24 they would want to have made.

25 If it was a proceeding where for instance

1177

1 what I'm involved in right now in Michigan where you
2 basically have two competing models, of course no one
3 there is asked to make a change because you have two
4 competing models.

5 Or if it was a situation where you needed to
6 change something that was very simplistic such as the
7 types of changes that Verizon and SBC were wanting to
8 make, they would likely be able do themselves because
9 the AT&T collocation cost model was an open and
10 transparent model and easily modifiable because it was
11 written in Excel. It's a very different environment
12 than when you're dealing with a compiled version of a
13 program such as VzLoop that has to run on a server which
14 we have no upload system or programming code upload
15 capability allowed to us. So it's a totally different
16 environment.

17 But again, in the case in California when it
18 was our model that was being used by all the parties, we
19 made changes that we were asked to make.

20 Q. Asked by the commission to make?

21 A. To my knowledge we were asked to make no
22 other changes. There were changes made by SBC and
23 Verizon as I recall to add new rate elements to the
24 models, but because of the nature of the model that we
25 developed, it was quite straightforward for SBC and

1178

1 Verizon to do that themselves, they did not need us to
2 do that for them.

3 Q. So did you -- were you provided a -- was
4 there a request to you by those parties to add those
5 elements to the model?

6 A. I mean again that's approximately five years
7 ago, and sitting here right now I don't recall a request
8 of that nature that was directed to us.

9 Q. Now did I understand your testimony a minute
10 ago to say that one of the considerations that you would
11 factor in to whether to make a change in a proceeding at
12 the request of a party as opposed to the commission was
13 whether there were competing models being entertained in
14 the proceeding?

15 A. Yes.

16 Q. And what did you mean by that?

17 A. The example I gave for Michigan where in this
18 particular case SBC has filed its collocation model,
19 AT&T has filed its collocation model. At this point
20 neither side is trying to do a restatement of the other
21 side's model, and so the whole issue of making changes
22 to the model hasn't even come up. In this particular
23 situation here, AT&T wanted to be able to make
24 modifications to VzLoop so that it could file something
25 that it felt would be more in compliance with TELRIC.

1179

1 Q. You're talking about the California case?

2 A. In California as well as here in Washington.

3 And so you have a different situation, there's competing

4 models, but in Michigan neither side is trying to

5 restate the other's. Here at least in the case of AT&T

6 they're actually wanting to do an affirmative

7 restatement of Verizon's model as well as file their

8 own.

9 Q. But not in Washington?

10 A. No, in Washington we did, we filed a restated

11 VzCost filing here with my testimony.

12 Q. I wanted to ask you a few questions about

13 your references to Delphi in your testimony. Directing

14 you to page 12 of your testimony, there's a question

15 that states:

16 Please provide an overview of the

17 Verizon development environment for the

18 VzCost, VzLoop, and related modules.

19 Do you see that?

20 JUDGE MACE: We don't have that on our page

21 12, I think it's on our page 11.

22 MR. RICHARDSON: Thank you.

23 BY MR. RICHARDSON:

24 Q. Do you see that, Mr. Turner?

25 A. I do see that, yes.

1180

1 Q. Now you state:

2 VzCost and VzLoop in particular were
3 developed by Verizon in Delphi.

4 And you go on. Now VzCost is not developed
5 in Delphi, is it?

6 A. My recollection was from some documentation
7 that I reviewed that it indicated that, but I know at
8 the workshop yesterday Verizon indicated that it's
9 developed in the dot net environment and does not use
10 Delphi or Pascal.

11 Q. And you refer in your testimony to VzLoop as
12 a black box; do you recall that term?

13 A. Yes.

14 Q. You're speaking again of VzLoop here, you're
15 not taking the position that VzCost is a black box, are
16 you?

17 A. As far as my testimony is here, no, I was not
18 taking that position.

19 Q. Now can you explain the relationship of
20 Delphi to Pascal?

21 A. Pascal is the programming language, and
22 Delphi is a programming environment, and normally what
23 you have whenever you purchase a programming language
24 such as Pascal or C++, you get with it if you purchase
25 it from a company like Delphi tools that allow you to

1181

1 debug the code that you have written to --

2 Q. Can you explain what that term means, debug?

3 A. Yeah, debug would be a situation where you
4 may have a coding error, and so when you compile your
5 program, it will create a compile error. And normally
6 when you purchase Pascal in a Delphi environment, it
7 will give you tools to be able to find out where those
8 coding errors are at and in some cases even give you
9 assistance in correcting them.

10 You also have what I would characterize as a
11 trap and trace capability so that you can identify run
12 time errors. So, for instance, what you could do there
13 is actually insert locations into the code where when
14 you reach that point in the code, the code will take a
15 break, if you will. It will stop processing and allow
16 the developer to step through the code and observe
17 variables that are being operated on in that section of
18 the code in such a way as to see how the logic is
19 actually working. It allows you to make sure that
20 you're operating on the data that you anticipate and
21 that you're doing to the data what you would anticipate.

22 It's the same sort of function that you would
23 typically do in Excel where you do trace precedents or
24 trace dependents in Excel. It allows you to see what
25 data are you depending on, and how are you manipulating

1182

1 that data. In Excel you're able to see that through the
2 formulas that are in the particular cell that is
3 operating against the code. This capability if it was
4 available, and it is available in a Delphi environment,
5 would allow one to be able to step through and see more
6 precisely how the logic within the model is operating.

7 I mean those are examples, but it's an
8 overall environment that allows one to be able to
9 utilize or develop code, test that code, ultimately
10 compile and confirm that it's operating in a run time
11 environment like one would anticipate.

12 Q. Now if I understand you right, you did not
13 need that tool to identify the negative crossover issue
14 that we have addressed earlier, did you?

15 A. A tool would have been helpful, but no, we
16 did not ultimately need that tool to identify that
17 error.

18 Q. And AT&T did not provide that tool in
19 connection with its modified synthesis model to Verizon
20 in the Virginia case when it was using a Pascal
21 language, did it?

22 A. I have no idea.

23 Q. Would you accept that subject to check?

24 A. Where would I check that at?

25 Q. Well, you could ask Mr. Pitkin.

1183

1 MS. STEELE: I'm --

2 A. I mean it's so far afield of what I have any
3 experience or knowledge of, I don't even know where I
4 could check that. You wanted me to confirm that
5 something wasn't done I suppose, but.

6 Q. Well, I think it's set forth in Mr. Pitkin's
7 testimony in the case, we would be happy to provide
8 that.

9 JUDGE MACE: Mr. Pitkin hasn't filed any
10 testimony in this case.

11 MR. RICHARDSON: No, he has not, but I guess
12 I would like to ask AT&T to confirm that it did not
13 provide a compiled version of the Pascal source code
14 when offering the modified synthesis model to the
15 Wireline Competition Bureau.

16 MS. STEELE: And I'm going to object that
17 this is far beyond the relevance of what we're doing
18 here. What AT&T may have happened to have done in
19 Virginia, we don't know whether there was a request to
20 do that, we don't know what the circumstances were. It
21 does not seem to me to be appropriate to ask for that as
22 subject to check in this proceeding.

23 CHAIRWOMAN SHOWALTER: Couldn't you have
24 filed this as a cross exhibit, whatever this information
25 is?

1 MR. RICHARDSON: I could have. I didn't have
2 it at the time. But I do think that it's relevant to
3 Mr. Turner's core argument here that VzLoop should not
4 be considered as a model because it's too difficult to
5 understand.

6 CHAIRWOMAN SHOWALTER: But aren't you
7 basically trying to impeach his testimony with something
8 that Verizon did or didn't do in another proceeding?

9 MR. RICHARDSON: That AT&T did or didn't do.

10 CHAIRWOMAN SHOWALTER: Excuse me, AT&T.

11 MR. RICHARDSON: That's correct.

12 (Discussion on the Bench.)

13 JUDGE MACE: We're going to sustain the
14 objection. This was more appropriately something you
15 could have obtained on cross.

16 CHAIRWOMAN SHOWALTER: No, filed it as a
17 cross exhibit.

18 JUDGE MACE: I'm sorry, obtained in discovery
19 and filed as a cross exhibit. And it also does seem
20 fairly far afield from where we are in this case.

21 I'm also reminded that you signed up for 30
22 minutes of cross-examination and started at
23 approximately 4:30.

24 MR. RICHARDSON: I only have about five more
25 minutes I think.

1185

1 JUDGE MACE: Thank you.

2 BY MR. RICHARDSON:

3 Q. Do you have, I take it from your prior
4 testimony that you do not have Delphi, Mr. Turner; is
5 that correct?

6 A. No, I do not have it.

7 Q. Do you know whether anybody else at AT&T has
8 it?

9 A. Well, that's a fairly broad question given
10 there's probably a large number of people at AT&T that
11 are programmers.

12 Q. Have you ever asked?

13 A. As to whether or not AT&T has Delphi?

14 Q. Yes.

15 A. No, I have not.

16 Q. Are you aware of any other consultant to AT&T
17 in these cost cases that has Delphi?

18 A. No, I do not.

19 Q. Have you asked?

20 A. We have talked about it collectively as a
21 team and concluded that having or not having Delphi does
22 not address the issue of being able to operate the model
23 outside of the environment that Verizon has designed it
24 in so that we can do these types of traps and trace
25 functions that I have described. Delphi doesn't solve

1186

1 that problem.

2 And so there's been an ongoing discussion
3 between AT&T counsel in California and Verizon counsel
4 in California regarding obtaining what we have
5 characterized as access to the native environment for
6 VzLoop and VzCost. To my knowledge, AT&T has still not
7 obtained that from Verizon. We have as a result
8 continued to pursue evaluating the code the way that I
9 have described, which is trying to replicate the
10 functions, calculations if you will of investments
11 outside the model, and then when we find discrepancies,
12 try to identify where those discrepancies are occurring
13 by literally reading through the code line by line to
14 find the problems.

15 Q. So is the answer to my question that you do
16 not know whether any other consultants for AT&T in these
17 cost cases have Delphi?

18 A. Based on my conversations with our team -- I
19 know in this case here in Washington we do not. And
20 based on our conversations in California, I do not
21 believe we do. And the reason we have not is because of
22 the explanation I provided previously.

23 Q. Is Delphi commercially available?

24 A. Yes, it is.

25 Q. And what you refer to, the programming

1187

1 environment that you need to understand or operate or
2 discern what's sticking in the code, how do you know
3 that you wouldn't be able to obtain that programming
4 environment if you acquired Delphi?

5 A. Generally just based on having people on our
6 team that have done systems development, client server
7 development, and experience in terms of actually doing
8 compiled code development and the necessity to have
9 access to the same set of coding libraries that Verizon
10 may have customized for its own use that it does the
11 compilation with versus what we would be able to buy off
12 the shelf from Delphi.

13 Q. But do I understand you that no one on your
14 team has Delphi?

15 A. No, but I have explained why. I can give
16 that --

17 Q. And that's why you know --

18 A. -- explanation again --

19 Q. -- that Delphi--

20 JUDGE MACE: Now I know it's late in the day,
21 but you need to talk one at a time, try not to talk over
22 each other.

23 A. I have answered that question already.

24 BY MR. RICHARDSON:

25 Q. I am trying to understand how you can know

1188

1 that Delphi is inadequate to get you where you want to
2 go if nobody on your team has it?

3 A. Because we on our team between the people on
4 the team have a significant amount of experience in
5 doing systems development, including people on our team
6 that have experience in doing client server development,
7 and so we know that just purchasing that tool does not
8 bridge the gap between the ability for us to replicate
9 what Verizon has on its server that it characterizes as
10 the VzCost and VzLoop tools. So it's not just buying
11 Delphi that solves the problem, and it's the other
12 things that I have indicated, it's the database
13 structures, the Pascal libraries that you would rely on
14 when you do compilation, it's more than just buying
15 Delphi. But we know that we do not have those things,
16 and we have not been able to obtain them, and so just
17 going out and purchasing Delphi we did not feel was a
18 necessary task just to prove a point when we didn't have
19 what based on significant experience on the team we did
20 not have to make the model work in a non-client server
21 environment, meaning hosted on a single computer.

22 Q. I just have one series of further questions
23 about your statements about the location of SAI's in I
24 believe it was the Bothell wire center in your
25 testimony.

1189

1 A. Yes.

2 JUDGE MACE: Do you have a reference to the
3 testimony?

4 THE WITNESS: It should be approximately
5 around page 34.

6 MR. RICHARDSON: Thank you.

7 JUDGE MACE: I see at line 12 unreasonable
8 SAI placement on page 34.

9 THE WITNESS: And then I make a reference on
10 page 35 to an exhibit SET-4, which is Exhibit 755 in
11 this proceeding, which is a diagram that kind of
12 illustrates part of this problem.

13 JUDGE MACE: Thank you.

14 THE WITNESS: I don't know where in the
15 testimony you want me to look, but that's generally
16 where this is discussed.

17 BY MR. RICHARDSON:

18 Q. I'm referring to the last Q&A in this
19 section, is there a solution to this problem, right
20 before (b), inefficient and embedded cable routing.

21 JUDGE MACE: That's on page 37.

22 Q. Yes, page 37, do you see that?

23 A. Yes.

24 Q. Now here, Mr. Turner, you say that you have
25 identified some SAI's that appear to be collocated in

1190

1 the model, and you state here that you have not yet
2 found a way to correct the systematic errors. Has
3 Verizon identified for you a way to relocate those five
4 SAI's in the network table?

5 A. Not really. Verizon has, as your testimony
6 explains, provided us a one day workshop and provided
7 us, us meaning mainly it's the CLEC team in California
8 but two of us are also here in Washington, provided us
9 with a set of tools which are supposed to be able to
10 allow us to move network components around and then
11 relink them in the preprocessing of VzLoop. We as of
12 the filing here did not have a way to correct that.
13 That statement is still correct even now. Even though
14 you have given us these tools, we still do not have a
15 solution.

16 And I also think it's important to note that
17 this is not a problem with five SAI's. Even Verizon's
18 own testimony acknowledges there's several hundred, and
19 I don't remember the exact number and I'm not sure if
20 it's confidential even, but there's several hundred
21 SAI's that have the same problem. So the solution that
22 we're looking for is one that allows us to correct this
23 in a more systematic way.

24 And then the way that the preprocessing
25 algorithms work, you then have to reestablish linkages

1191

1 between the moved SAI's and the distribution terminals
2 that they would be connected to. So we have a process
3 that we are investigating for doing that, but as of the
4 date that I filed this, which was April 20th, 2004, we
5 had not yet found a way to do that. And as of today,
6 June 1st, or is today June 2nd now, we are still finding
7 problems with using the tools that Verizon provided to
8 us.

9 Q. And when was the workshop that you're
10 referring to?

11 A. It was I believe February.

12 Q. February 5th?

13 A. It was somewhere in February.

14 Q. In that time frame?

15 A. Yes.

16 Q. And was the purpose of that to show you how
17 to relocate the coordinates of an SAI in the network
18 table?

19 A. That was part of the purpose of that
20 workshop.

21 Q. Did you attempt to do that for these five
22 SAI's prior to the filing of your testimony?

23 A. No, I did not.

24 MR. RICHARDSON: I have no further questions.

25 JUDGE MACE: Thank you.

1192

1 Dr. Gabel.

2

3 E X A M I N A T I O N

4 BY DR. GABEL:

5 Q. Mr. Turner, in your opening statement you
6 referred to a coding error you found in modeling DLC
7 digital line carrier calls. And Mr. Richardson asked
8 you about some correspondence between AT&T and Verizon
9 in the California proceeding which also involved as I
10 understand from the questioning DLC calls. Is this the
11 same error in both cases?

12 A. Yes, it is.

13 Q. Then could you just describe what was the
14 nature of what you understand to be that error?

15 A. Yeah, the nature of it is that you may recall
16 from the workshops yesterday that there's a process
17 where you calculate something called ECF values, and you
18 calculate these values for fiber underground, buried,
19 and aerial cable, and then you also calculate them for
20 copper underground, aerial, and buried cable. And then
21 effectively what happens is in the numerator you have
22 the DLC cost, and then in the denominator you have the
23 delta between the fiber cost per foot and the copper
24 cost per foot. The theory is that quotient will provide
25 you a number of feet, and if your distance away from the

1193

1 wire center is greater than that, then you should place
2 DLC. This is the way their model works, I'm not saying
3 it's perfect, but this is what it does. And if you're
4 less than that distance, then you would not place.

5 And what we found was there are situations
6 based on what those ECF values are where the denominator
7 will produce a negative value. So in other words, you
8 have a situation where the cost of fiber, the way it
9 typically works, the cost of fiber is greater than the
10 cost of copper, and so if that's the case you will never
11 justify putting in DLC, okay. So what should happen in
12 that situation is that quotient should be set to either
13 a very large number or you should have some logic in the
14 code that protects you. But the way the code was
15 working is it would allow the negative denominator to
16 occur, so you take DLC divided by any negative number,
17 you get a negative number. You compare that to any
18 distance, my example that I provided attached is Exhibit
19 756, had a DLC location that's like 200 feet from the
20 wire center with a negative number in the denominator,
21 you're going to end up placing DLC because it's less
22 than the crossover value, because it's a negative
23 crossover value.

24 And then the way the logic of the model works
25 and the reason this was such a substantial problem is

1194

1 once DLC gets placed on any leg in the route away from
2 the central office, then all subsequent SAI's will be
3 served by fiber through a DLC. There is some
4 aggregation function that takes place, but nonetheless
5 it basically suspends any evaluation of whether or not
6 there should be a DLC placed downstream. So if you make
7 an error very close to the central office, you're going
8 to replicate that error.

9 So we basically offered to Verizon a way to
10 correct that to ensure that if a negative value occurred
11 that their appropriate determination would be made,
12 which is that you don't place DLC.

13 Q. Mr. Richardson also asked you about your
14 ability to audit or to review the Pascal code, and you
15 described your interest in doing a trace and trap audit.
16 My question is, you can't -- if you can't run the code
17 on Verizon's main frame or mid sized computers, is it
18 possible to take that code and just import it into a
19 Pascal PC program and then do your trace and trap on a
20 PC?

21 A. We believe that that would be possible, but
22 we would need for Verizon to provide for us structurally
23 how you would need to set up your databases on a single
24 PC environment. It's not atypical that the company that
25 Verizon likely used to do the development for VzLoop

1195

1 likely developed it in that type of environment. So we
2 would simply need for them to provide to us whatever
3 structure that they used to do the development in a
4 single PC environment, whatever DLL's, dynamic link
5 libraries that they used, anything that's custom that
6 would insure that the code operates in the same way for
7 us as it would for Verizon.

8 Once you have that, then you're right,
9 there's standard tools available from Delphi that would
10 allow you to do these trap and trace functions. And so
11 you could, for instance, just say when you get to that
12 crossover calculation, stop and step through and you
13 could actually investigate the values. And as soon as
14 you would see a negative crossover, you would know that
15 something is amiss.

16 Q. And did AT&T request the DLL's and other
17 material that it would need in order to port the program
18 from a main frame over to a PC?

19 A. To my knowledge we have, but we haven't asked
20 for it exactly that way, just the vagaries of discovery,
21 if you ask for -- you try to ask for something that's
22 general so you don't end up playing the well, we gave
23 you that but it doesn't still work game. What we call
24 -- characterized it as the native programming
25 environment I believe is the way that we have described

1196

1 it to Verizon. So in other words, don't just give us
2 the DLL's, give us what it takes to be able to operate
3 this on a stand alone computer environment.

4 You know, it may end up that they would have
5 to say, well, you're going to have to have specific
6 processing capabilities or specific memory capabilities,
7 go ahead and give us that information so that we can do
8 those types of things on our own so that we're not being
9 constrained by problems associated with the Internet,
10 problems associated with uploading, we would have the
11 flexibility to potentially make program changes
12 ourselves and then, of course, be able to do these audit
13 functions that are typically performed by cost analysts
14 on the model.

15 Q. My last question, Mr. Turner, is
16 Mr. Richardson also asked you about your testimony where
17 you characterized the Verizon loop model as a black box,
18 I just want to make sure I understand why you're
19 characterizing the model as a black box. Am I correct
20 it's not because it's written in Pascal, but it's
21 because of your inability to do the trace and trap; is
22 that -- or what was it that made --

23 A. It's just it's the complexity of when you're
24 dealing with a model that both relies on a database
25 structure with multiple tables and compiled Pascal code,

1197

1 it just makes it very difficult. I don't want to say
2 impossible because we are finding these problems, but it
3 makes it much more difficult than you typically
4 experience in model evaluation to simply trace through
5 how data that comes into the model ends up being used
6 and manipulated, and I don't mean that in a negative
7 connotation, but simply the calculations that occur
8 against that data and then flows back out into a result
9 that would then subsequently have factors applied to it.
10 So it's the -- it's the logic associated with that which
11 is made very complex when you're dealing with compiled
12 code, accessing databases, and you're trying to piece
13 some of this together, which is why in many cases we
14 have simply had to do that by reproducing calculations
15 in Excel.

16 Q. Well, since you have reviewed the code as
17 well as the data that's manipulated by the program, did
18 this look to you like something that could be done on a
19 PC or, you know, stepping back from it, does it seem
20 sensible to have moved from the PC environment over to a
21 larger computer given the size of the data that needed
22 to be accessed?

23 A. I think you would have to run this on a
24 larger computer. I don't think it was necessary that
25 Verizon require that it be done using a client server

1198

1 environment where you're running it effectively through
2 the Internet, because we're -- there's many complexities
3 that that creates as a cost analyst that we're
4 continuing to struggle with because of having to deal
5 with a remote computer that has to host our data before
6 we can even run their programs. And I will grant
7 Verizon that they are eager to provide workarounds to us
8 to help solve those problems, but we wouldn't have those
9 problems if we were dealing with a model that was
10 running on a local computer. But given the amount of
11 data that Verizon is manipulating, and again I don't
12 mean that in a negative connotation, I understand their
13 need to have a larger computer than what you would
14 typically run a model on in terms of if it was an excel
15 based or even an Access based model.

16 DR. GABEL: Thank you.

17

18 E X A M I N A T I O N

19 BY CHAIRWOMAN SHOWALTER:

20 Q. Did you determine any measure of the
21 prevalence of this negative quotient condition?

22 A. We have done some work with that and estimate
23 that approximately 20% of the DLC placements are
24 affected by this problem. Now that has been primarily
25 based on subsequent work that we have done in

1199

1 California, so I don't have the exact number for you
2 here in Washington, but it would probably be in that
3 same 20% range.

4 Q. And you testified that you offered a fix for
5 this problem, was the research or the California, excuse
6 me, the post California inquiry that you made based on a
7 fix of that kind, or did you just determine where the
8 negative quotient exists?

9 A. What we did is we actually offered to Verizon
10 a way to systematically correct the code so that when a
11 negative quotient occurs that you basically set the
12 quotient to a fairly large number so that a crossover
13 determination would not be found. In other words, you
14 wouldn't place DLC. And so we -- Verizon for the most
15 part implemented the approach that we laid out and has
16 given us back a version of the code with that in it.

17 Q. Do we have that data in our record here?

18 A. I do not believe that you do. We have it as
19 part of our work in California, and you do not have that
20 version. It would be -- it's referred to by Verizon I
21 believe as version 7a, but I don't believe you have that
22 here in Washington.

23 Q. So does the data that you have pertain only
24 to California?

25 A. That's correct.

1200

1 Q. But the version 7a could be used in
2 Washington?

3 A. Yes, it could.

4 JUDGE MACE: How would we go about getting
5 this version 7a in the event that it becomes necessary
6 to make an adjustment along the lines that the witness
7 has described?

8 MR. RICHARDSON: Verizon could that do that
9 the same way that they did it in California, it would be
10 to essentially allow that to be run so that those
11 negatives wouldn't exist, if I understand it.

12 JUDGE MACE: So is it simply a matter of
13 access to version 7a, or is it you're providing 7a and
14 accompanying documentation to us?

15 CHAIRWOMAN SHOWALTER: Or third, I thought I
16 heard you to say you're providing recalculated data
17 based on 7a.

18 MR. RICHARDSON: We can do that, but we have
19 also provided it in California to AT&T for its use, and
20 it -- we could do that here in Washington.

21 JUDGE MACE: You mean the version 7a?

22 MR. RICHARDSON: 7a.

23 CHAIRWOMAN SHOWALTER: Well, let's ask
24 Dr. Gabel what he would like.

25 (Discussion on the Bench.)

1201

1 MR. RICHARDSON: I understand that the way we
2 do it is we could put it up on the Internet so that like
3 7 it would be available as 7a for the parties to use.

4 JUDGE MACE: What date would we be talking
5 about that you could have that done?

6 MR. RICHARDSON: We could contact Verizon
7 tomorrow to see whether that could be done in the next
8 day or two.

9 JUDGE MACE: Very well, then you would have
10 an answer before we concluded the hearing?

11 MR. RICHARDSON: Yes, we would.

12 JUDGE MACE: All right, thank you.

13 CHAIRWOMAN SHOWALTER: I have no further
14 questions.

15 COMMISSIONER HEMSTAD: I have no questions.

16 COMMISSIONER OSHIE: I have no questions for
17 Mr. Turner as well.

18 JUDGE MACE: Anything else, Mr. Richardson?

19 MR. RICHARDSON: Just a couple of questions.

20

21 C R O S S - E X A M I N A T I O N

22 BY MR. RICHARDSON:

23 Q. Mr. Turner, this economic crossover is one of
24 three criteria for placing the initial DLC in the
25 system; is that correct?

1202

1 A. Yes.

2 Q. So that if the -- and the first condition is
3 Verizon uses the location of the closest DLC to the
4 central office, correct?

5 A. I'm not sure I understood that question.

6 Q. Well, there are several other criteria for
7 placement of DLC's, correct?

8 A. Yes.

9 Q. And what is your understanding of the others?

10 A. This is in your documentation, but as from my
11 memory one of the criterias is if a DLC has already been
12 placed by a Verizon engineer, I can't remember how you
13 characterize that, I know that it's denoted in their
14 database as a capital F whereas a model DLC is
15 characterized as a lower case f, so that would be one.
16 Another is if the first DLC moving away from the central
17 office was necessitated by the copper loop maximum
18 distance, the 12,000 feet that Verizon recommends, the
19 18,000 feet that I recommend, so if you're going to
20 exceed the 18,000 foot total copper length, then Verizon
21 will place the DLC, or excuse me, 12,000 feet in your
22 inputs, but they will place a DLC because of technical
23 requirements and won't even -- it doesn't even get to
24 the economic crossover issue.

25 Q. So if, I think you answered my question but

1203

1 just to clarify, if the first DLC is placed for either
2 of the other two reasons including the 12,000 minimum
3 copper loop length restriction in Verizon's model, and
4 that distance is sooner than the economic crossover,
5 then the economic crossover essentially has no impact;
6 is that correct?

7 A. That's true, but the nature of this problem
8 is just particularly prevalent close to the central
9 office. And once you -- the way the logic in the model
10 works is once a location moving away from the central
11 office is converted to DLC, the model assumes that all
12 subsequent locations would be in excess of the economic
13 crossover point. And so it's the nature of the problem
14 that it tended to affect DLC placements close to the
15 central office, but because it affected there, it shut
16 off the model's calculation of economic crossover
17 downstream to find out where the real appropriate place
18 would have been to start placing DLC, which is why it's
19 a larger issue than you would initially anticipate, or
20 at least that's what we found with California where we
21 have been able to do some work with this because we have
22 the 7a version there.

23 MR. RICHARDSON: No further questions.

24 JUDGE MACE: Redirect?

25 MS. STEELE: Just a few questions.

1204

1

2

R E D I R E C T E X A M I N A T I O N

3

BY MS. STEELE:

4

Q. Mr. Turner, you were discussing with

5

Mr. Richardson your attendance at this February 5th

6

seminar that was put on by Verizon, and then you were

7

asked whether after the workshop you attempted to move

8

the SAI's that you have discussed in your testimony, the

9

Bothell SAI's that are all in one location, and you said

10

that you didn't try to do that. Why did you not try to

11

do that?

12

A. Well, in part at the workshop Verizon

13

repeatedly emphasized how complex this was and the

14

potential for it introducing other types of errors, so

15

they -- I don't want to say they said we couldn't do it,

16

because they were showing us how, we could if we really

17

wanted to, but they certainly discouraged us from doing

18

it.

19

Secondly is that we felt that the only real

20

solution to this would be to come up with a systematic

21

solution, to not just deal with five but to actually

22

solve the problem systematically throughout Verizon's

23

network where it has these, for lack of a better word,

24

engineering discrepancies where the engineering system

25

shows SAI's being placed on top of one another when in

1205

1 fact even Verizon will acknowledge that does not occur.
2 So we wanted a systematic way to solve that, not just
3 fixing it in those five. I gave that as an illustration
4 of the problems in the model. I gave illustrations of
5 others as well besides that. But that's the reason
6 between February and April we did not do that.

7 And I will give one last reason is that there
8 is yet a new tool that Verizon has provided to us in
9 California. I don't believe we have it here in
10 Washington. But that is to help us to visually identify
11 these changes that we want to make and then confirm that
12 they are then relinked up and part of the preprocessing
13 task. And that's a recent tool, it was something that
14 was not available to us as of April 20th.

15 And so I would say -- I don't want -- this is
16 a fluid environment that we're dealing with here in
17 terms of the capability to do this, the development of a
18 systematic way to solve the problem, and then confirming
19 how to actually implement that for not just five but,
20 you know, all of the situations in Verizon's network
21 where this type of anomaly occurs.

22 Q. And you discussed with Mr. Richardson the
23 fact that Delphi is commercially available, can you tell
24 me approximately how much it costs?

25 A. You can get different classes of it, but I

1206

1 think you could get it for approximately \$500.

2 MS. STEELE: That's all I have, thank you.

3 JUDGE MACE: Mr. Richardson.

4

5 R E C R O S S - E X A M I N A T I O N

6 BY MR. RICHARDSON:

7 Q. I just want to ask you about the February
8 meeting. You say that you were discouraged by Verizon
9 from attempting to relocate SAI's in the network table;
10 is that your testimony?

11 A. Well, we were actually -- let's -- to be real
12 precise, we were told absolutely not to do it in the
13 network table. You have to do it in the pre-network
14 table.

15 Q. Sorry, pre-network table.

16 A. We were even discouraged to do it there, that
17 it's a fairly complex process to make those changes.

18 Q. Wasn't the purpose of the meeting to instruct
19 you how to do it in the pre-network table?

20 A. That's what I tried to say. I mean it's a
21 situation where Verizon was doing what we had asked them
22 to do, show us how to make these changes, and also
23 telling us that it's a very complicated task that can
24 create situations where you orphan is I believe the term
25 that they used downstream terminals if you don't

1207

1 correctly relink them to your moved SAI. And so it's --
2 we understand that it's complex, but we also felt that
3 it needed to be done.

4 And so my take away from it was Verizon was
5 saying only, you know, the faint of heart should not try
6 this, and I'm not saying I was faint of heart because we
7 were trying to come up with a systematic way of dealing
8 with this, but if you really feel you have to do it,
9 here's how it would be done. So it's complex, and yet
10 we felt it needed to be done.

11 And I'm telling you even today, several
12 months removed from that, we are still having problems
13 with relinking within the preprocessing of Verizon's
14 tools. So in other words, when you move it, you have to
15 reconnect those downstream terminals. We're still
16 having a difficulty doing that even with the tools that
17 Verizon has provided us.

18 Q. Didn't Verizon say that the only restriction
19 on moving them, I'm talking about at the meeting now,
20 the only restriction on moving them was to make sure you
21 formatted the table in a way that conformed with the
22 existing table?

23 A. Well, you don't want to get me started on
24 Verizon saying things. I mean we have routinely been
25 given instructions on how different portions of

1208

1 Verizon's costing tools will work, and we have found
2 difficulties all along the way in operating within those
3 instructions. So yes, there were instructions provided
4 to us, there were tools provided to us. We are
5 attempting to follow those, and we're finding it to be
6 not as straightforward as we were provided during that
7 workshop.

8 And we are going to continue to work with
9 Verizon to reconcile this for the filing in California,
10 but by April 20th we did not have the ability to do
11 that, and as of today we still do not have that ability.
12 Even though Verizon has provided us with tools and
13 instructions, we're still finding it to be a very
14 complicated process. It still doesn't mean that we
15 don't want to do it, because we think it's necessary to
16 accurately develop the cost as much as we can using the
17 Verizon environment that they provided us.

18 Q. I understand your testimony that you believe
19 that it's difficult to do, but I'm really asking you who
20 told you that they were discouraging you from trying,
21 and what were the words that they used, if you can
22 recall?

23 A. I can't recall the person, but it was a
24 general caution that was provided to us that whenever
25 you go in and start trying to change the pre-network

1209

1 table that Verizon has given us that you run the risk of
2 orphaning downstream terminals and -- because you're
3 effectively breaking the link that Verizon has, moving
4 the SAI to a different location within the footprint,
5 and then you're supposed to then relink the terminals
6 back together. And we were cautioned that doing that
7 can create problems, and in fact we're finding that to
8 be the case.

9 But it doesn't change the fact that there are
10 a large number, several hundred here in Washington and
11 even more in California, where you have SAI's on top of
12 one another, which based on Verizon's explanations to
13 date should not occur in your network. And so we are
14 trying to develop a systematic process to correct that
15 problem so that we more accurately reflect what a
16 forward looking network would cost.

17 JUDGE MACE: Mr. Richardson, Verizon caused
18 to have marked a Cross Exhibit 758 for Mr. Turner, do
19 you offer that in evidence?

20 MR. RICHARDSON: Yes, I would.

21 JUDGE MACE: Is there any objection to the
22 admission of that exhibit?

23 MS. STEELE: No objection.

24 JUDGE MACE: I will admit it.

25 Is there anything else for Mr. Turner?

1210

1 If not, then thank you very much, you're
2 excused.

3 THE WITNESS: Thank you.

4 JUDGE MACE: I think we really need to have a
5 little discussion about what we're going to do tomorrow.

6 CHAIRWOMAN SHOWALTER: Well, is it a case
7 that we have --

8 JUDGE MACE: Let's be off the record, please.

9 (Hearing adjourned at 6:00 p.m.)

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25