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BEFORE THE WASHINGTON UTILITIES AND

2

TRANSPORTATION COMMISSION

3

4 In the Matter of the Pricing ) Docket No. UT-960369  
5 Proceeding for Interconnection, ) Phase III  
6 Unbundled Elements, Transport ) Volume XII  
7 and Termination, and Resale ) Pages 2608-2818

6

8 In the Matter of the Pricing ) Docket No. UT-960370  
9 Proceeding for Interconnection, )  
10 Unbundled Elements, Transport )  
11 and Termination, and Resale )  
12 for US WEST COMMUNICATIONS, )  
13 INC. )

14 In the Matter of the Pricing ) Docket No. UT-960371  
15 Proceeding for Interconnection, )  
16 Unbundled Elements, Transport )  
17 and Termination, and Resale )  
18 for GTE NORTHWEST, )  
19 INCORPORATED. )

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14

15 A hearing in the above matter was  
16 held on March 1, 2000, at 9:08 a.m., at 1300  
17 Evergreen Park Drive Southwest, Olympia, Washington,  
18 before Administrative Law Judge C. ROBERT WALLIS,  
19 Chairwoman MARILYN SHOWALTER, Commissioner RICHARD  
20 HEMSTAD, and Commissioner WILLIAM R. GILLIS.

21

22 The parties were present as  
23 follows:

24

25 US WEST COMMUNICATIONS, INC., by  
Lisa A. Anderl, Attorney at Law, 1600 Seventh Avenue,  
Room 3206, Seattle, Washington 98191.

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1 THE COMMISSION, by Ann E. Rendahl,  
Assistant Attorney General, 1400 S. Evergreen Park  
2 Drive, S.W., P.O. Box 40128, Olympia, Washington  
98504-0128.

3

NEXTLINK WASHINGTON, ELECTRIC  
4 LIGHTWAVE, INC., ADVANCED TELCOM, INC., NEW EDGE  
NETWORKS, INC. and GST TELECOM, by Gregory J. Kopta,  
5 Attorney at Law, 2600 Century Square, 1501 Fourth  
Avenue, Seattle, Washington 98101-1688.

6

GTE, by W. Jeffery Edwards and  
7 Jennifer McClellan, Attorneys at Law, Hunton &  
Williams, 951 E. Byrd Street, Richmond, Virginia,  
8 23219.

9

TRACER and RHYTHMS LINKS, INC., by  
Stephen J. Kennedy, Attorney at Law, Ater Wynne, Two  
10 Union Square, Suite 5450, 601 Union Street, Seattle,  
Washington 98101.

11

WASHINGTON INDEPENDENT TELEPHONE  
12 ASSOCIATION, by Richard A. Finnigan, Attorney at Law,  
2405 S. Evergreen Park Drive, S.W., Suite B-3,  
13 Olympia, Washington 98502.

14

MCI WORLDCOM, by Ann Hopfenbeck,  
Attorney at Law, 707 17th Street, Suite 3600, Denver,  
15 Colorado, 80202.

16

AT&T, by Susan Proctor, Attorney  
at Law, 1875 Lawrence Street, Suite 1575, Denver,  
17 Colorado, 80202.

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24 Barbara L. Spurbeck, CSR  
25 Court Reporter

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1 JUDGE WALLIS: Let's be on the record,  
2 please, for our March 1, it is today, session in  
3 Docket Numbers UT-960369, et al. For today's  
4 session, Commission Staff is calling to the stand its  
5 witness, Thomas L. Spinks, and a number of documents  
6 have been submitted in conjunction with his  
7 testimony. I would like to identify those documents  
8 for the record at this time.

9 The first is marked as Exhibit 251-T for  
10 identification. That is the testimony of Thomas L.  
11 Spinks. Exhibit 252 is the qualifications of Thomas  
12 L. Spinks. 253 is designated Deaveraged Rate  
13 Proposal for US West. 254 is Deaveraged Rate  
14 Proposal for GTE Northwest. 255-T is the responsive  
15 testimony of Thomas L. Spinks.

16 Two-fifty-six is US West Deaveraged Loop  
17 Rates. 257 is US West Deaveraged Loop Rates,  
18 Three-zone Option. 258 is GTE Northwest Deaveraged  
19 Loop Rates by Density Zone. 259 is GTE Northwest  
20 Deaveraged Loop Rates by Density Zone, Three-zone  
21 Option. 260-T is the rebuttal testimony of Thomas L.  
22 Spinks.

23 In addition, there has been distributed an  
24 errata sheet for Thomas L. Spinks containing errata  
25 to his responsive and rebuttal testimony. I'm going

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1 to mark that as 260-E. In addition, Staff has  
2 distributed a Revised Exhibit 261, and I'm marking  
3 that Revised 261, dated February 29, 2000. The  
4 subject is US West Four-zone Three Distance Band  
5 Comparison. 262 --

6 MS. RENDAHL: Your Honor, I would say the  
7 title's somewhat -- it's both for US West and GTE,  
8 although it's titled US West.

9 JUDGE WALLIS: Very well, thank you.  
10 Two-sixty-two has been distributed, as have some  
11 other documents by US West, for potential use on  
12 examination of this witness. 262 is the Staff  
13 response to US West Data Request Number Seven. 263  
14 is the Staff response to Data Request Eight. 264,  
15 the response to Data Request Nine.

16 Two-sixty-five is the response to Data  
17 Request 10. 266, the response to Request Number 11.  
18 267, the response to Request Number 12. 268, the  
19 response to Request Number 13. 269 is the response  
20 to Request Number 14. 270, the response to Data  
21 Request Number 15. 271, the response to Data Request  
22 Number 16, and 272 is the response to US West Data  
23 Request Number 17.

24 Finally, GTE has presented a document for  
25 potential use on cross. That is a regression graphs

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1 document, and it is marked as 273 for identification.  
2 Is there anything else of a preliminary nature?

3 I'd just note that Counsel for the  
4 Commission Staff has returned today, and is replacing  
5 Ms. Johnston. Ms. Rendahl, did you want to state  
6 your appearance for the record?

7 MS. RENDAHL: Yes, Your Honor. Ann E.  
8 Rendahl, R-e-n-d-a-h-l, for Commission Staff,  
9 Assistant Attorney General.

10 JUDGE WALLIS: Thank you very much. Mr.  
11 Spinks, would you please stand and raise your right  
12 hand?

13 Whereupon,

14 THOMAS L. SPINKS,  
15 having been first duly sworn, was called as a witness  
16 herein and was examined and testified as follows.

17 MR. EDWARDS: Judge Wallis, may I ask a  
18 question?

19 JUDGE WALLIS: Mr. Edwards.

20 MR. EDWARDS: Is there an exhibit number,  
21 and I'm sure you said it and I missed it, with  
22 respect to the errata that was handed out yesterday?

23 JUDGE WALLIS: Yes, I've designated that as  
24 260-E.

25 MR. EDWARDS: I'm sorry. Well, then, I'm



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1 confused. There was an errata that was handed out  
2 the first day of hearings that I thought had been  
3 labeled 260-E, and then there was an additional  
4 errata that was distributed yesterday.

5 JUDGE WALLIS: Let's be off the record.  
6 (Discussion off the record.)

7 JUDGE WALLIS: Let's be back on the record,  
8 please. In some administrative discussions, it's  
9 been determined that there is one errata sheet, which  
10 is marked as Exhibit 260-E, and there is a Revised  
11 Exhibit 261, designated Revised, and dated 2/29/2000.  
12 That is the only Exhibit 261 that we have marked for  
13 identification at this point. So now, with that, Ms.  
14 Rendahl.

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

16 BY MS. RENDAHL:

17 Q. Mr. Spinks, would you please state your  
18 full name for the record, state your position with  
19 the Commission, and your address here with the  
20 Commission?

21 A. Certainly. My name is Thomas L. Spinks,  
22 that's S-p-i-n-k-s. I am a telecommunication  
23 industry expert on the Staff of the Washington  
24 Commission. My business address is P.O. Box 47250,  
25 Olympia, Washington, 98504.

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1 Q. Mr. Spinks, do you have any corrections or  
2 additions to the testimony that you are sponsoring  
3 today?

4 A. Beyond --

5 Q. The testimony and exhibits, excuse me, that  
6 you're sponsoring today?

7 A. No, not beyond what has already been  
8 identified.

9 Q. So the errata sheet that's been identified  
10 as Exhibit 260-E, you don't have any additional --  
11 anything additional to that?

12 A. Well, no. During the course of the  
13 hearing, there were some -- through the testimony of  
14 other witnesses, there were a couple places in my  
15 testimony where I had got something wrong. But  
16 rather than strike that, I think we'd just deal with  
17 that as we got to it. And beyond that, there was  
18 Exhibit 261-R.

19 Q. And would you explain what that revision is  
20 for the record?

21 A. On 261-R, on Monday, GTE distributed a  
22 motion to strike specific references to HAI 5.0. And  
23 in reviewing that, I discovered that in -- it was  
24 pointed out that in my Hatfield 3.1 estimates, that  
25 there are four-wire centers out of the 210 that 3.1

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1 did not produce cost estimates for. And what I had  
2 done was to use the 5.0 estimates in the 3.1  
3 equations for GTE to fill in those gaps with. After  
4 the motion to strike, it was no longer appropriate to  
5 have that in there. It wasn't until Monday that I  
6 became aware of that, and so I prepared a new  
7 exhibit, which removed the four -- removed the HAI  
8 5.0 cost data, substituted in the cost estimates that  
9 GTE itself had developed for Mr. Denney to use to  
10 fill in the gaps with, and used those, then, to redo  
11 the regression and the flat zone rates for GTE, and  
12 that's the only part of Exhibit 9 that's changed.

13           The bottom half for GTE, for example, in  
14 the zone average of 16.50 for the greater than 650  
15 density zone, that was 16.55. So it made a small  
16 difference in the estimates, but made the cost  
17 estimates totally consistent with 3.1 cost data, per  
18 the Commission's directive.

19           MS. RENDAHL: Thank you. I'd tender the  
20 witness for cross-examination or voir dire, whichever  
21 the bench chooses.

22           JUDGE WALLIS: Are you offering the  
23 exhibits?

24           MS. RENDAHL: And I'm offering the  
25 exhibits.

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1 JUDGE WALLIS: Mr. Edwards.

2 MR. EDWARDS: I do. I have an objection  
3 with respect to Exhibit 261-R, and I'd like to voir  
4 dire the witness.

5 JUDGE WALLIS: Please proceed.

6 V O I R D I R E E X A M I N A T I O N

7 BY MR. EDWARDS:

8 Q. Mr. Spinks, my name is Jeff Edwards. Good  
9 morning, sir.

10 A. Good morning.

11 Q. Your errata sheet, which has been labeled  
12 Exhibit 260-E, is unrelated, isn't it, sir, to  
13 Exhibit 261-R?

14 A. Well, they're both part of my rebuttal  
15 testimony.

16 Q. But your Exhibit 261-R -- well, first, your  
17 errata sheet has four specific changes; correct?

18 A. Yes.

19 Q. And at least in four paragraphs. Paragraph  
20 one, paragraph two, paragraph three all deal with  
21 numbers in your responsive direct testimony, which is  
22 Exhibit 255-T; correct?

23 A. Yes.

24 Q. And the only change with respect to your  
25 rebuttal testimony is the change in the designation

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1 of the US West tariff in Exhibit 262 -- 260-T; is  
2 that correct?

3 A. Yes.

4 Q. And 261-R, that was handed out yesterday  
5 evening, is unrelated to any of the changes that you  
6 make in 260-E in your responsive testimony; correct?

7 A. Yes.

8 Q. All right. Now, with respect to 261-R, the  
9 original 261 that was attached to your rebuttal  
10 testimony -- let me ask it this way. The original  
11 261 was attached to your rebuttal testimony; is that  
12 correct?

13 A. Yes.

14 Q. And that rebuttal testimony is Exhibit  
15 260-T; correct?

16 A. Yes.

17 Q. And when you prepared Exhibit 260-T, you  
18 knew at the time that you prepared that document that  
19 a motion to strike all use of Hatfield Model 5.0a had  
20 been filed; correct?

21 A. Yes.

22 Q. So in fact, the motion to strike was not  
23 distributed on Monday of this week, was it, sir?

24 A. No, and I didn't say it was. I said that  
25 GTE's motion to strike specific references was

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1 distributed on Monday.

2 Q. And that's what I'm asking you, sir.

3 Actually, the motion had been filed sometime before  
4 that, it had been granted, and what GTE distributed  
5 on Monday was those portions of the testimony that  
6 should be struck because the motion had been granted;  
7 correct?

8 A. Yes.

9 Q. All right.

10 A. And I might point out that there are  
11 delineations in there that are incorrect. We don't  
12 agree with all of the information that GTE has  
13 suggested should be struck.

14 Q. But with respect to what we're focusing on  
15 right now, which is your Exhibit 261 and your Exhibit  
16 261-R, you agree with me that when you prepared that  
17 exhibit knowing the motion to strike HAI 5.0  
18 references had been filed, you nevertheless included  
19 in your exhibit to your rebuttal testimony, 260-T,  
20 5.0a information for Fairfield, Loomis, Malden and  
21 Thorton; isn't that correct?

22 MS. RENDAHL: I object right now, Your  
23 Honor. I understand that the intent of the voir dire  
24 is to indicate that there was an objection to the 5.0  
25 data at the time the rebuttal testimony was filed.

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1 However, the specifics of the objection were not  
2 filed until Monday. Now, the motion was not decided  
3 until after the rebuttal testimony had been filed,  
4 and so at that time there was still pending a  
5 question as to whether it was appropriate or not to  
6 include that information in the testimony, so I don't  
7 believe that there is a problem in having filed the  
8 testimony with that information in it.

9 Now, and once the motion was granted, then  
10 there is that issue pending, and I think that's what  
11 Mr. Spinks intended to address. So I understand the  
12 line of questioning here, but I'm not sure we need to  
13 go there.

14 MR. EDWARDS: With all due respect, the  
15 witness knew the motion had been filed when he  
16 prepared his testimony. And in fact, when he  
17 prepared the testimony, he stated that the 3.1  
18 version that was contained in his exhibit was  
19 intended to exclude all 5.0a data. That's why he  
20 offered the alternative versions. But in fact,  
21 knowing the motion had been filed, 5.0a information  
22 was nevertheless included in the 3.1 run.

23 Once the witness, after the motion had been  
24 granted, I assume that the witness did not go back  
25 and check his papers or whatever to see whether any

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1 of his runs were still tainted, even though the  
2 testimony said that they weren't. It was only when  
3 GTE distributed the specific testimony references  
4 that needed to be struck as a result of the granting  
5 of the motion that the witness, at that time, has now  
6 changed the analysis, changed the numbers, rerun a  
7 deaveraging, done additional regression analysis,  
8 which is a substantive change to the testimony which  
9 was distributed last evening.

10 MS. RENDAHL: Your Honor, I believe, as Mr.  
11 Spinks has stated on the record, that the change was  
12 to three exchanges out of a large number of them, and  
13 let me ask Mr. Spinks a question.

14 MR. EDWARDS: If I could finish my voir  
15 dire before we go back with redirect.

16 JUDGE WALLIS: Very well.

17 Q. In addition to the Fairfield, Loomis,  
18 Malden and Thorton exchanges, Mr. Spinks, you also  
19 used a 5.0a number for Stevens Pass; is that correct?

20 A. Yes.

21 Q. Now, in the revision that was handed out  
22 last night, I'm correct, aren't I, Mr. Spinks, that  
23 you, for Fairfield, Loomis, Malden and Thorton, did  
24 not use the 5.0a numbers, but instead used \$55.97 for  
25 each of those, which is GTE's corrected number to



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1 AT&T's original proposal?

2 A. I substituted that number in for those four  
3 wire centers, plus Stevens Pass, which also had HAI  
4 5.0 data.

5 Q. Right.

6 A. Or five wire centers.

7 Q. But there's a difference between those  
8 other four and Stevens Pass; correct? Hatfield 3.1  
9 actually does not have a number at all for Fairfield,  
10 Loomis, Malden and Thorton; correct?

11 A. Oh, that's correct, yes.

12 Q. But Hatfield 3.1 does have a number for  
13 Stevens Pass; correct?

14 A. It does, but that --

15 Q. You choose --

16 A. But that number is what I call a bad data  
17 point, and it should be eliminated from there,  
18 regardless of whether you substitute in a 5.0 number  
19 or simply leave it totally out of the analysis.

20 Q. So for Stevens Pass, 3.1 has a data point,  
21 but you decided that it was bad and excluded it?

22 A. Well, I'm not the only one. Mr. Tucek  
23 himself noted in his direct testimony that the  
24 Stevens Pass data point was some eight or 10 times  
25 higher value than any other wire center in the group,

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1 and that -- I mean, I think it's clear that it's an  
2 erroneous data point.

3 Q. I don't want to quibble with you about  
4 that. Mr. Tucek did not rely on 3.1. You did,  
5 though; correct?

6 A. That's correct.

7 Q. All right. Are there any other bad data  
8 points in 3.1 that you changed?

9 A. Not that I recall.

10 Q. And in the work papers that you gave us  
11 yesterday evening, you did a regression analysis; is  
12 that correct?

13 A. I simply redid the regression that I had  
14 done earlier using the different data points, using  
15 the substitute data points. I didn't redo it as if I  
16 did a different analysis, no.

17 Q. You did not do a regression to determine  
18 the coefficient of the average loop lengths and, in  
19 fact, excluded all five of those exchanges we've  
20 talked about?

21 A. Yes, that's right. I excluded them in the  
22 regression. I included them in the flat zones, and I  
23 excluded them from the regression, because they're --  
24 yes, that's right.

25 MR. EDWARDS: That's all the voir dire

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1 questions I have, and then I have a motion.

2 JUDGE WALLIS: Ms. Rendahl.

3 MS. RENDAHL: I would just submit that when  
4 Mr. Spinks became aware of the problem with his  
5 exhibit and the data points on Monday, that he, at  
6 that point, made the necessary change to his exhibit,  
7 and I believe that's responsive to the Commission's  
8 granting the motion to strike references to 5.0 and  
9 to make the data useful to the Commission in  
10 considering the information.

11 And considering the late changes that have  
12 been allowed in this case so far, I think this is a  
13 minor revision to an exhibit to make it consistent  
14 with the Commission's wishes. And I don't believe it  
15 raises such significant evidentiary problems to GTE,  
16 given that the substitutes are data that they have  
17 provided themselves. It's not something that Staff  
18 has developed on their own.

19 So I would request that the Commission  
20 allow the revised exhibit to be admitted and used in  
21 this proceeding.

22 JUDGE WALLIS: Mr. Edwards.

23 MR. EDWARDS: The issue is not a minor one  
24 for several reasons. When the testimony filing  
25 began, I can tell you there was a lot of discussion

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1 within my client regarding what model runs and what  
2 information could be used. We made the decision to  
3 play by the rules. That's why we filed our original  
4 direct testimony, about which there's been much  
5 cross-examination of GTE about why you changed your  
6 mind. But we played by the rules.

7           On the other hand, when we received  
8 testimony that did not follow the rules as we  
9 understood them, we responded with a motion. The  
10 motion was granted. Staff witness knew the motion  
11 was pending at the time the alternative analysis was  
12 prepared with the rebuttal testimony, and in fact,  
13 stated that he was providing an analysis that did not  
14 claim that -- did not include that information. That  
15 turned out not to be true.

16           When GTE brought that to the attention not  
17 only of the Staff, but everybody, so that everybody  
18 knew that, then a revision was filed the day before  
19 the witness files that changes substantively the  
20 proposal from the Staff with respect to the Hatfield  
21 3.1 run. Not only does it change it in a way that is  
22 indicated to include data from 3.1 only. When there  
23 is 3.1 data for Stevens Pass, it's excluded. So  
24 again, my concern, even with the revision, is that  
25 the data that's being generated and is ostensibly

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1 being relied on, in fact, is not. And for that  
2 reason, I move to exclude 261-R.

3 JUDGE WALLIS: Very well.

4 MR. KOPTA: Judge Wallis, may I be heard on  
5 this?

6 JUDGE WALLIS: Mr. Kopta.

7 MR. KOPTA: We support Staff's position on  
8 this motion. I think there are a couple of  
9 additional factors that Ms. Rendahl didn't mention  
10 that we think are pertinent here. First, GTE and US  
11 West, when they filed their motion to strike, did not  
12 at that time identify specific portions of the  
13 testimony that they sought to strike. Rather, they  
14 simply made a blanket motion to strike references and  
15 the use of Hatfield 5.0a.

16 Certainly, it has been my experience with  
17 this Commission that in filing motions to strike, one  
18 generally includes specific references to testimony  
19 that one wishes to strike, not just a general  
20 authorization to later specify those portions of the  
21 testimony.

22 JUDGE WALLIS: Mr. Kopta, I'm going to  
23 interject here in the sense that I think we have  
24 enough information, argument on the record to make a  
25 decision on the admissibility of the revised

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1 document, and I'd like to try to confine the field of  
2 discussion, if we can, to what's been stated already.

3 MR. KOPTA: And that is simply what I'm  
4 going to, which is that I think Mr. Spinks has made  
5 clear this morning that once it became clear to him  
6 which specific references GTE has in mind, he made  
7 the corrections that he has identified to bring his  
8 testimony into compliance with the Commission's order  
9 based on information that was already in the record.

10 And that is something that certainly GTE's  
11 witnesses have done in preparing their alternative  
12 proposal, based on testimony that Mr. Denney  
13 provided. And in addition, Mr. Thompson, on the day  
14 he was to testify --

15 JUDGE WALLIS: Mr. Kopta, I think I'm ready  
16 to make a ruling.

17 MR. KOPTA: Thank you.

18 JUDGE WALLIS: That is that we are going to  
19 reject the motion to exclude. I don't see that  
20 there's been any nefarious action on the part of  
21 Staff. The Staff appears to have responded  
22 responsibly to information as they knew it. There  
23 appears to have been a mistake, which is being  
24 corrected. As to the significance of the mistake and  
25 the propriety of data that you've alluded to, you're

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1 free to continue cross-examination on that point and  
2 to offer to the Commission the values that you think  
3 would be appropriate.

4 And let me ask if there is objection to any  
5 of the other documentary exhibits? It appears that  
6 there is none, and those exhibits are received.

7 MR. EDWARDS: Judge Wallis, I appreciate  
8 the indulgence of the Commission to allow me to make  
9 a record on that point.

10 JUDGE WALLIS: Thank you. Ms. Rendahl, do  
11 you have anything further of the witness?

12 MS. RENDAHL: No, I believe the witness is  
13 available for cross-examination.

14 JUDGE WALLIS: Very good. Mr. Edwards,  
15 would you like to lead off?

16 MR. EDWARDS: Sort of warmed up here, so --

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

18 BY MR. EDWARDS:

19 Q. Good morning again, Mr. Spinks.

20 A. Good morning.

21 Q. In your original testimony, you'd agree  
22 with me that you made a proposal to deaverage  
23 switching costs. And in your rebuttal testimony,  
24 Exhibit 260-T, you have withdrawn that proposal?

25 A. That's correct.

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1 Q. With respect to Exhibit 251-T, Mr. Spinks,  
2 would you turn to page two?

3 A. I'm there.

4 Q. Line 19, sir. You'll agree with me that,  
5 in preparing at least your original proposal, you  
6 attempted to identify geographic areas having  
7 significant cost differences?

8 A. That's correct.

9 Q. And you'd agree with me that you were not  
10 able to do that, were you?

11 A. No, I wouldn't agree. I'll agree that I  
12 was not able to find unique areas with statistical  
13 differences, but nonetheless developed areas that do  
14 have statistically significant differences.

15 Q. Were you able to identify geographic areas  
16 having significant cost differences?

17 A. Yes.

18 Q. But you didn't use them in your proposal,  
19 did you?

20 A. I believe I did.

21 Q. In fact, sir, you just defaulted to the  
22 density zone levels in the Hatfield Model; correct?

23 A. Well, the density -- yes, I guess you could  
24 say it that way, but my point would be that the  
25 density zone from the model, there were significant



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1 differences between them.

2 Q. Look at page four of Exhibit 251-T, and I  
3 want to say it the way you say it. Do you agree with  
4 me you said that Staff could not determine a unique  
5 -- I'm talking about line two, sir. Staff could not  
6 determine a unique set of geographic areas where  
7 costs differed significantly. Is that your  
8 statement?

9 A. That's correct, yes.

10 Q. And so Staff chose to use the preexisting  
11 HAI Model density zones; is that correct?

12 A. Yes.

13 Q. Your proposal, I think all of your  
14 proposals, is to determine a deaveraged cost at the  
15 exchange level, is that correct?

16 A. Yes, that's correct.

17 Q. Why do you believe use of an exchange level  
18 is preferable to wire center?

19 A. I think the two reasons that I think the  
20 exchange level ought to be pursued is, one, in Phase  
21 I -- or I'm sorry, not in Phase I, but rather in  
22 Docket UT-980311, the universal service case, we  
23 found the exchange to be the geographic level at  
24 which universal service costs would be determined.  
25 And as parties have recognized, there a linkage

02633

1 between the universal service, wholesale and retail  
2 deaveraging.

3           And the idea was that to, maintain  
4 consistency between the level, the geographic level  
5 at which the wholesale deaveraging took place, and  
6 the level, geographic level at which universal  
7 service funding is determined. Let's see. That's  
8 right.

9           The second reason had to do with simply  
10 some administrative simplicity issues, where  
11 exchanges -- exchange areas are contiguous geographic  
12 areas, wire center areas in which people receive  
13 service at a common rate, for instance. And the idea  
14 that the wholesale rates beyond that level, just for  
15 administrative simplicity purposes, was the other  
16 reason.

17           Q. Did you conduct any direct analysis of the  
18 accuracy, if you will, of cost determination at the  
19 wire center versus the exchange level?

20           A. I didn't, but I've seen in the testimony of  
21 others that have calculated the cost on wire center  
22 level that you get a lower cost in, say, a Zone One  
23 with a pure wire center approach than you do with the  
24 exchange level approach. What that means is you're  
25 introducing some distortion into what are the -- what

02634

1 would otherwise be the economically efficient costs  
2 on which you'd based your deaveraged loop rates.

3 Q. So your testimony is that you believe that  
4 use of a wire center introduces distortion at the  
5 exchange level, doesn't it?

6 A. No, just the opposite. It's exchange  
7 level. When you go to the exchange level, you engage  
8 in some averaging. And that averaging, because some  
9 of the wire centers don't belong in the density zone  
10 that the exchange is in, cause the rate to be  
11 otherwise higher or lower.

12 Q. Let me ask you to look at your direct  
13 testimony, Exhibit 251-T, at page five, lines six  
14 through 11.

15 A. I see that.

16 Q. Would it be fair to say that what you're  
17 saying there is that the choice of the model does not  
18 appear to be crucial to the outcome of the  
19 deaveraging process, and that one reason for that is  
20 that the disaggregated costs are scaled to a  
21 statewide average cost?

22 A. I think when I made the statement early in  
23 the case, in this process, I was somewhat naive about  
24 the scope of the models that would be presented. And  
25 I made the statement within the context of thinking

02635

1 that what the companies would use would be a BCPM  
2 type estimate, and that really what we'd be talking  
3 about is the difference about deaveraged costs based  
4 on either a BCPM estimate or a Hatfield model  
5 estimate. And so it was within that context that I  
6 made the statement.

7 Q. In fact, in your responsive testimony,  
8 which is Number 255-T, on page four, you, in fact,  
9 included a discussion and an analysis that was  
10 intended to demonstrate exactly that the choice of  
11 the model matters; correct?

12 A. Can I have the page reference?

13 Q. Yes, sir, it's your response --

14 A. I'm there, I'm there.

15 Q. Page four.

16 A. Yes, that's correct.

17 CHAIRWOMAN SHOWALTER: We're not there.

18 MR. EDWARDS: I'm sorry. It is the  
19 responsive testimony, 255-T, at page four. And I'll  
20 repeat the question.

21 Q. The question is that, there in your  
22 testimony, Mr. Spinks, you in fact included a table,  
23 an analysis to demonstrate that the choice of the  
24 model does in fact matter, even when the  
25 disaggregated costs are scaled to a statewide

02636

1 average; correct?

2 A. Yes.

3 Q. May I ask you to go back again to Exhibit  
4 251-T, which is your direct testimony, page seven?

5 A. I'm there.

6 Q. Have you ever worked for a telephone  
7 company, Mr. Spinks?

8 A. No.

9 Q. In lines 11 and 12, you're addressing your  
10 proposal for distance-sensitive rates and indicate  
11 there that more aggregated rate structures may be  
12 appropriate if your proposal creates undue  
13 administrative burdens and costs. Do you see that?

14 A. Yes, I do.

15 Q. Did you perform any analysis of the  
16 administrative burdens and costs that your proposal  
17 would incur prior to the time you filed Exhibit  
18 251-T?

19 A. No, I'm unable to. I don't have that  
20 information.

21 Q. And so your answer would be yes to the  
22 question you haven't done any analysis since that  
23 time, either?

24 A. I think the answer is it's impossible for  
25 Staff to do the analysis without the information. We

02637

1 don't have knowledge of companies' administrative  
2 cost structures. The only thing we can do, in  
3 putting this out here, was to draw a response from  
4 the companies as to perhaps they could identify what  
5 they are, if they were significant.

6 Q. On that same page, if you look down at line  
7 20, you say databases exist which can locate a census  
8 block for a given address. Do you see that?

9 A. Yes, I do.

10 Q. Did you have any specific databases in mind  
11 when you made that statement?

12 A. I just know that there is a website that  
13 you can go to to do that lookup.

14 Q. Do you know the accuracy of that lookup at  
15 that website?

16 A. No.

17 Q. Have you attempted to do any lookups in the  
18 state of Washington at that website?

19 A. I believe we've used it in a couple of  
20 instances.

21 Q. Did you use it with respect to your  
22 testimony here, though, sir?

23 A. No.

24 Q. Let me ask you to turn to your responsive  
25 testimony, Exhibit 255-T, page three, line seven.

02638

1 A. Yes, I'm there.

2 Q. You state there that the Staff included  
3 some high-cost smaller wire centers in with larger,  
4 low-cost wire centers only -- but only because  
5 they're part of the same exchange. Do you see that?

6 A. Yes, I do.

7 Q. Is that still your testimony?

8 A. Yes. I could probably clarify this a  
9 little by referring to when I referred to high-cost  
10 smaller wire center and low-cost larger, I'm  
11 referring to wire centers that would be in different  
12 density zones if they were by themselves.

13 Q. If the Commission should not adopt your  
14 proposal and instead, for GTE, for example, would  
15 adopt GTE's compromise proposal that I think you've  
16 heard testimony about over the last couple of days at  
17 the wire center level, do you think the Commission  
18 should constrain that proposal to deaverage -- that  
19 the Commission should constrain it to put wire  
20 centers in the same exchange in the same zone?

21 MS. RENDAHL: Excuse me, the same zone as?

22 Q. Well, so that you would not end up with a  
23 situation where you have wire centers in the same  
24 exchange in different deaveraged zones, rate zones,  
25 which I understand is what you've done here on your

02639

1 responsive testimony?

2 A. Right. I can't recommend that the  
3 Commission adopt GTE's alternative proposal, whether  
4 it be on a wire center basis or a exchange basis,  
5 because of the mixing of the density, low density,  
6 high-cost wire centers in with the high-cost low --  
7 when they're not part of the same exchange. That is,  
8 it's not the same comparison as the analysis -- or  
9 the proposal Staff put together that's on an exchange  
10 level.

11 JUDGE WALLIS: Can I interject with a  
12 request that Counsel clarify what proposal it is that  
13 we're talking about here.

14 MR. EDWARDS: It was the compromise  
15 proposal that Mr. Dye testified to yesterday, where  
16 you would take the AT&T alternative, Column Three on  
17 page 16 of Mr. Denney's testimony, and collapse Zones  
18 One and Two.

19 JUDGE WALLIS: Thank you.

20 CHAIRWOMAN SHOWALTER: And it's not  
21 reflected in a separate exhibit anywhere?

22 MR. EDWARDS: No, the backup is in the  
23 exhibits that the Chairwoman asked about, but yeah.

24 CHAIRWOMAN SHOWALTER: Okay.

25 Q. Let me get back on my train of thought



02640

1 here. Let me ask this way. In your responsive  
2 testimony, 255-T, Staff has taken high-cost wire  
3 centers and low-cost wire centers and grouped them  
4 together so that wire centers within the same  
5 exchange are within the same zone; correct?

6 A. Yes.

7 Q. And at least with respect to Staff's  
8 proposal, Staff thinks that's the appropriate thing  
9 to do?

10 A. Well, one of the -- as I said earlier,  
11 there were two reasons why we thought the exchange  
12 level would be the appropriate level.

13 Q. My question, though, is Staff believes that  
14 it is acceptable to put high-cost and low-cost wire  
15 centers together to serve the policy position that  
16 the wire centers within the same exchange be within  
17 the same zone?

18 A. Yes.

19 Q. Let me ask you to turn to what's labeled  
20 TLS-7, attached to your responsive testimony, which  
21 is Exhibit 259.

22 A. I'm there.

23 Q. Am I correct that what's contained in  
24 Exhibit 259 is an alternative three-zone proposal for  
25 GTE not by distance band, but simply three zones, and

02641

1 in it you've used the Hatfield 3.1 model?

2 A. Yes, that's correct.

3 Q. You also use the 5.0, but we'll focus  
4 specifically on 3.1, all right, sir?

5 A. Sure.

6 Q. And as you have chosen to define your zones  
7 here, you agree with me that the exchanges in Zone  
8 One are the exact same exchanges that are in Zone One  
9 in your five-zone proposal, which is attached to your  
10 direct testimony; is that correct?

11 A. I believe so, yes.

12 Q. Now, look for me, if you would, at what's  
13 been admitted this morning as 261-R.

14 A. I have that.

15 Q. All right, sir. And in the lower left-hand  
16 corner is, for GTE, a three-zone proposal using  
17 Hatfield 3.1; correct?

18 A. Yes.

19 Q. And the zones you've chosen in Exhibit 261  
20 are the exact same zones as in Exhibit 259; correct?

21 A. They should be.

22 Q. Right. Why, then, are the zone averages  
23 different?

24 A. I would assume that the primary reason  
25 would be -- well, the Exhibit 7, HAI 3.1 estimates,

02642

1 would still have the Hatfield 5.0 numbers in them,  
2 would be one reason.

3 Q. All right. And then your original filed  
4 TLS-7 should, also; right? TLS-9, I mean.

5 A. The original.

6 Q. The original filed. All right. Let's look  
7 at that for a minute, attached to your testimony.

8 A. Yes.

9 Q. This should be the exact same run as  
10 appears in Exhibit 259, attached to your responsive  
11 testimony; correct?

12 A. Well, obviously not. There must have been  
13 some changes made between the two, and I suspect that  
14 what they were was -- if my recollection serves me  
15 right, in the original 261, I had made a change from  
16 the earlier three-zone proposal to recognize that the  
17 Stevens Pass data point, the \$1,200 per month per  
18 loop or whatever, \$3,000 per month per loop, whatever  
19 that estimate was, really should be taken out of  
20 these estimates, that it was clearly a bad data  
21 point, and it was at that point that I substituted in  
22 the -- I believe it was a 300-some dollar estimate  
23 that was used in the 5.1 -- or 5.0 model.

24 Q. Did you explain that change anywhere in  
25 your testimony?

02643

1 A. No, but I did file the work papers that  
2 allows anyone to see it.

3 Q. If in fact, that's what you did, then the  
4 Stevens Pass number that you used in Exhibit 259 in  
5 your 3.1 run -- I guess I'm confused. Is that really  
6 from 3.1 or is that from 5.0a?

7 A. Well, I would have to go back and check the  
8 work papers, but, again, my recollection is this was  
9 sort of an evolutionary process. Each time I would  
10 go through and develop a new proposal, I would find a  
11 little associated adjustments, or tweaks, if you  
12 will, that I would do to -- with the idea of trying  
13 to produce a more accurate estimate.

14 And my recollection is that, between these  
15 two estimates, that what I had done was substitute  
16 the Stevens Pass number, and I may have done some  
17 other changes, but I don't recall. I would have to  
18 go back and check the work papers. I've actually  
19 relied heavily on Mr. Tucek's analysis to help me  
20 find those errors. He's been --

21 Q. He's pretty good at that, isn't he?

22 A. He's darn good at it.

23 Q. May I ask you to look at your rebuttal  
24 testimony, which is Number 260-T, page four? Here,  
25 beginning at about line four, I believe your

02644

1 testimony is that actual loop distance is not  
2 important for your distance-sensitive proposal; is  
3 that correct?

4 A. Well, let me sort of try to restate that.

5 Q. Yes, sir.

6 A. What I would say is not important is that  
7 the rate that's used in a distance-sensitive band  
8 exactly reflects the physical distance of the loop  
9 that produces the cost within that band. And what  
10 that goes back to is the notion that you're smoothing  
11 costs across the band, even though some loops are  
12 longer and some loops are shorter. You're engaged in  
13 a smoothing operation.

14 And the way companies have traditionally  
15 rated many of their distance-based services is to  
16 use, regardless of the route that the copper cable  
17 takes, is you use the as-the-crow-flies distance.  
18 And that -- I think that that's what I'm talking  
19 about here, that it matters, of course, in terms of  
20 the cost, and that would be important in the context  
21 of these rates but for the fact we've already set the  
22 statewide average rate that you have to reconcile  
23 back to. So as long as you're reconciling back to  
24 that rate, I don't see an issue with using a crow's  
25 fly distance versus the actual -- whatever the actual

02645

1 length of the loop is within the band.

2 Q. You say there in line eight that as the  
3 crow flies is forward-looking. Do you see that?

4 A. Yes.

5 Q. Can you tell me what definition of  
6 forward-looking you're using there?

7 A. Well, sure. It's the difference between  
8 embedded cost and forward-looking cost at the  
9 physical level. At the physical level, you have  
10 loops -- you could have a loop in a four to five  
11 kilofeet distance band, but it actually traveled a  
12 distance of eight kilofeet from the central office  
13 till it got to its end position. Under the -- under  
14 an embedded cost approach, you would look at the  
15 entire cost of the loop if you wanted to know what  
16 the cost was. On a forward-looking basis, you don't  
17 pay attention to what was done historically. In  
18 fact, if it went out eight kilofeet, if you build the  
19 loop today and if the easiest way to do it is a loop  
20 that's five and a half kilofeet long, that's the loop  
21 that you build and charge for. And that's a  
22 straighter -- that's a straight distance, as opposed  
23 to the historic route that a loop may have taken.

24 Q. Would you agree with me, then, that a model  
25 that does not model outside plant as the crow flies

02646

1 is not forward-looking?

2 A. No, that's not what that means at all.

3 Q. That's what I'm trying to explore. Is it  
4 your testimony, then, that to be forward-looking, it  
5 has to be as the crow flies or sometimes as the crow  
6 flies?

7 A. What this testimony is about is  
8 distance-sensitive rate structure, not -- I'm not  
9 talking about forward-looking in terms of the cost  
10 estimation process. And I can see where you're  
11 coming from with that, but what I'm talking about is  
12 the rate structure being a forward-looking rate  
13 structure, not to be confused with or intertwined  
14 with the process that we use to develop  
15 forward-looking cost.

16 Q. I'm trying to test the consistency of your  
17 proposal.

18 A. Sure.

19 Q. Does the Hatfield Model 3.1 model outside  
20 plant, quote, as the crow flies?

21 A. Well, not precisely. It can't do that. No  
22 model can. It models plant in the most efficient,  
23 geographically efficient way, given whatever  
24 geographic constraints that there are.

25 Q. And would you agree with me that

02647

1 forward-looking may mean least cost, it may mean most  
2 efficient, but it also means reasonably available?

3 A. I'm a little confused. Reasonably  
4 available what?

5 Q. For implementation?

6 A. The cost?

7 Q. No, the outside plant, sir.

8 A. I'm sorry, I'm --

9 Q. You're measuring -- what does loop cost  
10 measure, cost of a loop?

11 A. That's correct.

12 Q. All right. Now, what I'm trying to get at  
13 is would you agree with me that in determining  
14 least-cost, most efficient reasonable alternative for  
15 outside plant placement, as the crow flies may not  
16 meet that definition?

17 A. That's correct. I said given whatever  
18 geographic constraints the model has, yes.

19 Q. Then, if you look on page four, line 11,  
20 you say there that the Staff's already provided  
21 parties with information on how locations can be  
22 readily identified with relative ease and at low  
23 cost. Does this refer to the database testimony in  
24 your direct testimony, 251-T, that I just asked you  
25 about?



02648

1           A.    I was referring there to the census block  
2 lookup as -- yes, one way that locations, albeit  
3 larger locations than an individual's dwelling, but  
4 it's one way locations can be cheaply and easily  
5 identified, yes.

6           Q.    That's the website you just testified to?

7           A.    Yes.

8           Q.    That you hadn't looked at?

9           A.    Yes, and then, since that, there's been  
10 other methods identified, which are actually probably  
11 better methods.

12          Q.    Let's look at your rebuttal again, page  
13 five, line 17.

14          A.    Yes.

15          Q.    Would you agree with me that the size of  
16 the wire center measured by number of lines is a cost  
17 driver with respect to loop cost, average loop cost?

18          A.    I think it is, but I think it's a weak  
19 measure.

20          Q.    How about average loop length? Do you  
21 agree with me that that's a cost driver?

22          A.    Yes.

23          Q.    In fact, you state in your testimony that  
24 loop density, which I understand to be number of  
25 lines by whatever the area you're in?

02649

1 A. Per square mile.

2 Q. Per square mile. Loop density and average  
3 loop length, in fact, can determine over 90 percent  
4 of loop costs?

5 A. It does in the US West, about 75 percent in  
6 GTE.

7 Q. And the analysis that you did was with  
8 respect to US West, and then you applied it to GTE;  
9 correct?

10 A. The initial one, yes. And again, since  
11 you're reconciling back to the statewide average, I  
12 -- so long as GTE has its reasonable opportunity to  
13 earn the 23.94, doesn't seem to me to be critical  
14 that the distance-sensitive rates be developed with  
15 GTE data.

16 Q. And in fact, you say that on page six;  
17 correct?

18 A. I said it somewhere, I think.

19 Q. Well, look back for me, if you would, at  
20 your responsive testimony, Exhibit 255-T, back at the  
21 table on page four.

22 A. Yes.

23 Q. And you'd agree with me that you tied the  
24 disaggregated loop cost in that table back to the  
25 statewide average for both US West and GTE; correct?

02650

1 A. Yes, they should be.

2 Q. And it still made a significant difference  
3 with respect to the disaggregated or deaveraged loop  
4 rates; correct?

5 A. What still made a significant --

6 Q. There's still a significant difference  
7 between the zones in the deaveraged rates there, even  
8 though you tied back to a statewide average rate?

9 A. Oh, yes, yes.

10 Q. Look for me, if you would, at page 10 of  
11 your rebuttal testimony, 260-T, footnote four.

12 A. Yes, I have that.

13 Q. Would you agree with me that even if there  
14 is a high correlation between two sets of data, that  
15 does not mean that the data are substitutes for each  
16 other?

17 A. Absolutely.

18 Q. Would you agree with me that in footnote  
19 four, your correlation there is not particularly  
20 high?

21 A. No, I think that's a pretty -- let me  
22 explain it this way. There's a pretty -- there was a  
23 researcher who showed that there was a strong  
24 relationship between sunspot activity and stock  
25 market highs and lows. Obviously, the two variables

02651

1 aren't related to each other, despite the fact that  
2 there's a high correlation.

3         In this case, the two variables, average  
4 loop length and the proportion of loops over 12  
5 kilofeet, it seems to me, are both distance-related  
6 measures, and the 68 percent R-squared, you know, I  
7 think is quite suggestive that there is a  
8 relationship between the two.

9         Q. All right. Do you have what's been marked  
10 as Exhibit 273, which was the one cross-examination  
11 exhibit I had submitted?

12         A. Yes.

13         Q. Do you have that in front of you?

14         A. Yes, I do.

15         Q. Have you had an opportunity to look at that  
16 before this morning?

17         A. Yes.

18         Q. Let me attempt to explain what I think we  
19 did there, and see if you can agree with that, that  
20 we took the coefficients from your equation from your  
21 rebuttal work papers, used the same value for density  
22 in each of the three zones, and computed the cost  
23 line -- the cost per line by loop length and plotted  
24 the values for the three density zones. Do you see  
25 that?

02652

1           A.    I do.  Let me clarify something.  Did you  
2 say that you used the same density value in each of  
3 the three exhibits?  It looks to me like you used the  
4 different density value in --

5           Q.    Appropriate for that density?

6           A.    -- appropriate for each zone.

7           Q.    That's correct.

8           A.    Okay.

9           Q.    And with my tortured explanation of it,  
10 have you had a chance to try to replicate what has  
11 been done here?

12          A.    No.

13          Q.    Would you agree with me that, if in fact  
14 what's been done here has been done correctly, the  
15 shape of the curve was continuous for each of the  
16 density zones, with no point discontinuity?

17          A.    Yes.

18               MR. EDWARDS:  Your Honor, I move for the  
19 admission of Exhibit 273.

20               MS. RENDAHL:  Your Honor, I guess I'd need  
21 to clarify this exhibit, in that it doesn't seem to  
22 show the appropriate -- I mean, it's got the same  
23 loop lengths under, you know, starting at 500 -- it's  
24 just not sufficient to show what they're trying to  
25 show here.  Granted, I'm not a statistician, so I'm

02653

1 having a little difficulty here, but I guess it's not  
2 clear from this exhibit what GTE is trying to show,  
3 and I think they need to demonstrate a bit more  
4 before placing it into the record.

5 MR. EDWARDS: I disagree, but let me ask a  
6 couple other questions.

7 Q. Would you agree with me that there is at  
8 least a reasonable debate among people that the cost  
9 per line should increase at some point as loop length  
10 increases?

11 A. Yes. Yes, I do.

12 Q. Would you agree with me, I mean, in your  
13 own opinion, that at some point in the loop length  
14 you would expect the cost per line to increase not in  
15 a continuous manner, but with some mark of  
16 discontinuity?

17 A. Well, I think if you used, like, an  
18 engineering approach to the cost estimation, cost  
19 estimates over distance, that's in fact probably what  
20 you would see, like a 12-kilofoot rate point, you  
21 might be able to jog up. In economic analysis,  
22 though, where you -- which aren't engineering-type  
23 approaches, that's right. The equations are smooth  
24 and they average those, smooth those out; that's  
25 right.

02654

1 Q. You don't disagree with me that what's been  
2 plotted here is the way the Hatfield Model 3.1 would  
3 plot those values?

4 A. Well, I would disagree. It's the way my  
5 equation --

6 Q. That's a better way to say it.

7 A. -- would plot them. In other words, the  
8 coefficient for the distance doesn't change as the  
9 distance change; that stays constant. What changes  
10 is the density variable as you go through each  
11 density zone.

12 Q. All right.

13 A. And so you'd expect to see the same curve  
14 in all three; just in each density zone it's, as the  
15 density zone gets lower, the curve is higher up on  
16 the scale. So if you look at the Y axis, it starts  
17 out at 6 to \$8 range in the most-dense zone and it's  
18 up in the \$30 range at the same distance in the  
19 least-dense zone.

20 Q. And if you were to plot engineering costs,  
21 as opposed to economic cost, I guess, then you would,  
22 I believe you testified, expect to see some mark of  
23 discontinuity at perhaps the 12,000-foot length?

24 A. Yeah, I'm not sure what they would look  
25 like if you could even -- if it would make sense to

02655

1 put them on this kind of a basis in engineering. But  
2 I understand the point, that there are two different  
3 approaches and they would result in different kinds  
4 of cost curves.

5 JUDGE WALLIS: I think the objection goes  
6 more to the weight than admissibility. The exhibit  
7 illustrates the discussions, and I think it's  
8 admissible, so we will receive it.

9 MR. EDWARDS: That's all I have, Your  
10 Honor. Thank you. Thank you, Mr. Spinks.

11 THE WITNESS: Thank you.

12 JUDGE WALLIS: Ms. Anderl.

13 MS. ANDERL: Thank you, Your Honor.

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

15 BY MS. ANDERL:

16 Q. Good morning, Mr. Spinks.

17 A. Good morning.

18 Q. Mr. Edwards asked you some questions that I  
19 would like to also talk to you about. On page four  
20 of your Exhibit 260-T, your rebuttal testimony, you  
21 have the discussion about the as-the-crow-flies --

22 A. Yes.

23 Q. -- distance measurement. And I apologize  
24 if you answered this question with Mr. Edwards. I  
25 didn't hear you answer it specifically, though. Do



02656

1 you consider Hatfield to be -- or, yes, Hatfield, as  
2 used in this docket, Version 3.1, a forward-looking  
3 model?

4 A. Yes.

5 Q. What about RLCAP?

6 A. I'm not familiar enough with it to speak  
7 from personal knowledge, but it's my understanding  
8 that it is.

9 Q. What about BCPM?

10 A. Likewise.

11 Q. Do you know whether any of those three  
12 models deploy facilities in their cost modeling on an  
13 as-the-crow-flies basis?

14 A. No, I don't think they do. And I thought I  
15 tried to clarify that in my discussion with Mr.  
16 Edwards. I'm talking about a concept using the term  
17 as crows flies with respect to a rate structure, not  
18 the cost estimation process. Although  
19 forward-looking models do build plant in perhaps a  
20 more efficient way than plant was historically built,  
21 subject to geographic constraints.

22 Q. I'm sure I had more questions than that.  
23 Sorry.

24 A. Darn.

25 Q. You're not going to get off that lightly.

02657

1 I apologize. My pagination here got a little bit  
2 confused, plus I'm trying to eliminate some topics  
3 that Mr. Edwards touched on. I want to make sure I  
4 covered them, but not in a duplicative way.

5 In your direct testimony, which is 251-T,  
6 page two, line nine, you state that the deaveraging  
7 proposals should not confer an unfair competitive  
8 advantage or harm upon any carrier. When you  
9 reference any carrier there, do you mean the ILECs,  
10 as well as the CLECs?

11 A. Yes.

12 Q. Is it correct, Mr. Spinks, that your final  
13 proposal to the Commission is 12 rates for US West?

14 A. Yes.

15 Q. And your final proposal for GTE is nine  
16 rates; is that right?

17 A. That's correct.

18 Q. Why did you choose 12 for US West, as  
19 compared with nine for GTE?

20 A. Because US West has exchanges or wire  
21 centers in a higher density range than GTE has. And  
22 so I'm recognizing that range that is between 2,500  
23 and 5,000 lines per square mile that exists in the  
24 Bellevue, Seattle, Mercer Island area as a separate  
25 -- I'm proposing that as a separate zone.

02658

1 Q. Now, is the Hatfield zone above 2,500 lines  
2 per square mile or above 2,550?

3 A. It might be 2,550. If you use the -- if  
4 you use the values that were directly in the model.

5 Q. Okay. Because, Mr. Spinks, let me direct  
6 your attention to your 261-R. And you characterize  
7 there or present there a density zone of greater than  
8 2,500; is that right?

9 A. Yes.

10 Q. And yet, in some of your earlier exhibits,  
11 specifically Exhibit 257 -- I'm sorry, 256, you set  
12 forth a zone of 2,550 to 5,000. Is it greater than  
13 2,500 or greater than 2,550?

14 A. Well, let me say first I'm pretty sure it's  
15 a distinction without a difference, and can be either  
16 one. I think the 2,500 is where -- is fine.

17 Q. But I mean, which is the density zone that  
18 Hatfield uses?

19 A. I don't recall. It could be the 2,550.  
20 That rings a bell, but, again, I'm pretty sure it's a  
21 distinction without a difference.

22 Q. Are you looking at Exhibit 256 right now?

23 A. No.

24 Q. Could you turn to that?

25 A. Sure. Okay, I've got that.

02659

1 Q. And 257, as well. Is it correct that the  
2 difference between these two exhibits is the  
3 difference between a four-zone proposal and a  
4 three-zone proposal for US West?

5 A. Yes.

6 Q. In order to produce these deaveraged cost  
7 proposals in this and any of your other exhibits in  
8 which you produced a deaveraged cost proposal, did  
9 you have to have or use line counts for US West?

10 A. Yes.

11 Q. Okay. And what line counts did you use?  
12 Did you use US West-specific line counts that had  
13 been provided previously in this docket or did you  
14 use the Hatfield national?

15 A. I used the line counts which were provided  
16 to me by US West.

17 Q. Okay.

18 A. What I call current line counts.

19 Q. Is it correct, Mr. Spinks, that to produce  
20 the \$14.20 zone price for Zone One on your three-zone  
21 option, you just took an averaged Zone One and Two in  
22 the four-zone proposal, the \$12.53 and the 15.87?

23 A. I don't think I simply averaged them; I  
24 just put all of the wire centers that were in both of  
25 those into one and recalculated the cost.

02660

1 Q. Let me ask you this. Is it mathematically  
2 correct that the average, mathematical average of  
3 12.53 and 15.87 is \$14.20, or would you accept that,  
4 subject to your check?

5 A. Yes, it appears to be. When you say  
6 three-zone proposal -- oh, for US West, okay.

7 Q. Right.

8 A. Yes.

9 Q. Exhibits 256 and 257?

10 A. Yes.

11 Q. So that number is a straight average; is  
12 that right?

13 A. Yes. Well, I don't know.

14 Q. Well --

15 A. Either the same amount -- either I made an  
16 error and averaged it, although that's not my  
17 recollection, it would have to be that the number of  
18 lines in the Bellevue-Seattle are approximately the  
19 same number of lines that are in the other groups,  
20 and that's probably why.

21 Q. That's where we're going.

22 A. Yeah.

23 Q. Okay. That's good, then. So it is a  
24 mathematical average -- the result there is a  
25 mathematical average, but whether you did it that way

02661

1 or not, you don't know; is that right?

2 A. Well, my recollection is is when I  
3 recalculated -- when I did the three-zone proposal, I  
4 had all the wire centers in the same column, so I'm  
5 pretty sure that what you're saying is you had an  
6 almost identical number of lines in the two zones.

7 Q. Well, wouldn't they have had to have been  
8 exactly identical?

9 A. No.

10 Q. How --

11 A. No, they can be roughly identical because  
12 of the rounding, and you still come out at 14.20.  
13 But it's not my recollection that I straight averaged  
14 these. That wouldn't be the right way to calculate  
15 it. I can't imagine that I did it that way.

16 Q. Okay. Well, let's --

17 A. And the work papers were made available. I  
18 mean --

19 Q. Well, let me ask you, in the Bellevue  
20 exchange, which is, I think, a relatively small  
21 exchange in terms of number of wire centers included  
22 in it -- I'm not saying geographically or number of  
23 lines, but just in terms of the subset of wire  
24 centers that is included in the Bellevue exchange.  
25 Do you recall what wire centers you included in the

02662

1 Bellevue exchange?

2 A. Well, I think it depends on whether Mercer  
3 Island belongs in Seattle or Bellevue. The two --  
4 there are two Bellevue wire centers, Glendale and  
5 Sherwood, and then there's the Mercer Island office.  
6 I don't recall whether I, in the work papers,  
7 calculated an exchange value and then used that. My  
8 recollection is I simply grouped all of the wire  
9 centers, regardless of whether Mercer Island went  
10 into Bellevue or into Seattle, into the same grouping  
11 that I used to calculate the cost, the average cost  
12 with. So it didn't matter, in other words.

13 Mr. Tucek had raised an issue that I had  
14 included Juanita incorrectly in the Everett wire  
15 center instead of the -- or in the Everett exchange  
16 instead of the exchange it went to, and it's true  
17 that I did that. But it's also true it made  
18 absolutely no difference to the bottom line, so --

19 Q. And let me assure you that that is not  
20 where I'm going with this.

21 A. Okay.

22 Q. I don't really care whether Mercer Island's  
23 included with Bellevue or Seattle.

24 A. Go ahead.

25 Q. If it is your testimony that it was

02663

1 included in one or the other.

2 A. Yes.

3 Q. And do you know what wire centers you  
4 included in the Seattle exchange?

5 A. All of those with the CLLI code that was  
6 Seattle's.

7 Q. And no others, unless the Mercer Island  
8 thing fell in there?

9 A. That's my recollection, yes.

10 Q. So if the CLLI code started STTL, you  
11 included it?

12 A. Yes.

13 Q. Do you recall whether you included any  
14 others, leaving aside Mercer Island, in the Seattle  
15 exchange?

16 A. No, my recollection is is that I used the  
17 density of the wire centers to do the selection, and  
18 if you look at the density, I believe that all of the  
19 -- there are no other wire centers, except the  
20 Seattle wire centers and the Bellevue and Mercer  
21 Island, that are in this very high-density range. In  
22 other words, Auburn, Des Moines, those are all in a  
23 lower range. And so it would have been drawing a  
24 line at the density zone that determined what wire  
25 centers went into and obviously exchanges went into



02664

1 one zone versus the other. I don't recall that I had  
2 to pick any of the Seattle wire centers out of the  
3 lower density zone and bring them up, because I was  
4 using the exchange basis, although that could have  
5 been the case.

6 Q. Well --

7 A. That's not my recollection.

8 Q. You're doing a good job of anticipating my  
9 next questions, Mr. Spinks, because I was going to  
10 ask you whether or not each and every single one of  
11 the wire centers you included in Zone One, Bellevue  
12 Glencourt, Bellevue Sherwood, Mercer Island, and all  
13 the STTL CLLI code wire centers are individually at a  
14 density greater than 2,550 lines per square mile?

15 A. And I don't recall.

16 JUDGE WALLIS: Ms. Anderl, is this a good  
17 breaking point, or are you nearly through?

18 MS. ANDERL: The former.

19 JUDGE WALLIS: Why don't we take our  
20 morning recess now and reconvene in about 15 minutes.

21 (Recess taken.)

22 JUDGE WALLIS: Let's please be back on the  
23 record, following a morning recess.

24 MS. ANDERL: Thank you.

25 JUDGE WALLIS: Ms. Anderl.

02665

1 Q. Mr. Spinks, during the break, were you able  
2 to gather some additional information with regard to  
3 some of the questions that I had asked you right  
4 before the break?

5 A. Yes, I did.

6 Q. And are you now able to tell me whether or  
7 not all of the wire centers that are included in the  
8 Seattle and Bellevue exchanges have a density of more  
9 than 2,550 lines per square mile?

10 A. I can tell you the -- in Seattle, there are  
11 12 wire centers. Seven of them have a density  
12 greater than 2,500 lines per square mile and five  
13 have a density of less, between 2000 and 2,500 lines  
14 per square mile.

15 Q. Then you were not able to ascertain whether  
16 the \$14.20 in the three-zone proposal was the result  
17 of a simple average of the Zones One and Two in the  
18 four-zone proposal or an independent calculation; is  
19 that right?

20 A. What I was able to confirm was that there  
21 are roughly 750,000 lines in the two zones. So  
22 they're rough equal lines.

23 Q. Isn't it true that the mathematical result  
24 would be something other than the \$14.20, unless the  
25 lines in the two zones were exactly equal?

02666

1           A.    No, when you have that many lines, 150,000,  
2 one can be -- one of the values can be 7.49 and the  
3 other can be 7.55 or something like that.  There's  
4 some distance that they can be different from one  
5 another and they still both round to 14.20.

6           Q.    Let me understand how you reached the  
7 14.20, then, for Zone One in the three-zone proposal.

8           A.    Well, I wasn't able to check all my work  
9 papers.  I was able to check on those two things.  
10 This would have been calculated by using all of the  
11 appropriate wire centers with greater than 650 lines  
12 per square mile in the calculations.  That's the way  
13 it should -- that's what I should find if I can go  
14 back and find the work paper.

15          Q.    It's correct, isn't it, Mr. Spinks, that an  
16 exchange, as they're described here in your proposal,  
17 Bellevue and Seattle, that the exchanges are smaller  
18 than the local calling areas for those exchanges?

19          A.    Yes.

20          Q.    In fact, isn't it correct that from  
21 Seattle, it's a local call to Bellingham, or I'm  
22 sorry, for Bainbridge Island?

23          A.    I don't know that for sure, but I would  
24 assume it is.  I know there's quite a large local  
25 calling area.

02667

1 Q. And in your four-zone proposal, Seattle is  
2 in Zone One and Bainbridge Island is in Zone Three;  
3 isn't that right?

4 A. Yes.

5 Q. In connection with the other zones that  
6 you've identified in the four-zone proposal, say 650  
7 to 2,550 lines per square mile is Zone Two, 100 to  
8 650 -- is that 650 or 850?

9 A. Well, it can be either, because there are  
10 no wire centers between the two, and I think I used  
11 -- I might have used 850 in an earlier exhibit and  
12 650 in this one. But, again, it's another one of  
13 those differences without a distinction.

14 Q. And then, so that's Zone Three. And then  
15 Zone Four is five lines to 100 lines per square mile?

16 A. Yes, and again, it could be zero to 100.  
17 There are no wire centers between zero and five, and  
18 I was looking at the traditional way they had set up  
19 the zone breaks, zero to five, five to 100, so --

20 Q. That's fine. And within each of the  
21 exchanges identified in each of those zones, there is  
22 one or more wire centers; is that right?

23 A. Yes. Mainly one, especially in the smaller  
24 zones. There's only one or two wire centers, I  
25 think. My recollection is that if we had to do an

02668

1 aggregation at all, they're almost all individual --  
2 the wire center is the exchange. It's only until you  
3 get into your Bellevue, Seattle, I think, that you  
4 really start -- where you have a large number of wire  
5 centers.

6 Q. Well, actually, Zone Two consists of a  
7 number of exchanges that have multiple wire centers;  
8 isn't that right?

9 A. Tacoma certainly does. Vancouver has  
10 three. Tacoma and Seattle are the two, and Spokane  
11 both have anywhere from eight to 12 wire centers.

12 Q. And what is true in the Seattle exchange,  
13 which is that there are some wire centers that have a  
14 density which is less than the density of the zone  
15 that they're in?

16 A. That's correct.

17 Q. Could that also be true in the wire centers  
18 in the exchanges in Zones Two and Three?

19 A. Yes, yes.

20 Q. Mr. Spinks, are you on Exhibit 256 or 257?

21 A. Two-fifty-six.

22 Q. Two-fifty-six, okay, good. Now, your  
23 proposal there for US West loop cost for HAI 3.1 is  
24 exactly the same as what your final proposal is,  
25 isn't that right, that it didn't change?

02669

1 A. Yes.

2 Q. For the zones?

3 A. Yes.

4 Q. Okay. Not for the loop length?

5 A. I understood that, yes.

6 Q. And you've got a footnote there that says  
7 you ought to add 57 cents to each of the above rates  
8 for the groomed loop. Do you see that?

9 A. Yes, I do.

10 Q. You did not include that footnote in your  
11 final exhibit, Exhibit 261-R. Is that intentional or  
12 was that an inadvertent omission?

13 A. I'm pretty sure it was an inadvertent  
14 omission.

15 Q. So is it correct that, for a groomed loop  
16 on your final proposal, one ought to add 57 cents to  
17 each of the proposed rates either for the zone  
18 average or for the distance band pricing?

19 A. Yes.

20 Q. Turn to your rebuttal testimony, please,  
21 Mr. Spinks, Exhibit 260-T, on page five.

22 A. I'm there.

23 Q. Do you see the statement that starts on  
24 line 19 in the middle of the sentence, the fact  
25 remains that over 90 percent of the variation in cost

02670

1 between wire centers?

2 A. Yes, I do.

3 Q. Okay. Is it more correct to say that over  
4 90 percent of the variation in average cost between  
5 wire centers is explained by the two factors that you  
6 list?

7 A. Yes. And it might even be even more  
8 correct to say about 75 percent of the variance is  
9 explained by the final regression using the HM 3.1  
10 data that was in -- provided in 261 Revised, the  
11 final proposals. The regression analysis was redone  
12 from the -- that was the 5.0 data that produced the  
13 90 percent, but Staff's recommendation is to use the  
14 3.1 data and that R-Square was lower than the  
15 regression using the 5.0.

16 Q. So you would be willing to say that you  
17 could correctly amend this testimony to read 75  
18 percent, instead of 90 percent, and insert the word  
19 "average" in front of the word "cost" on line 20?

20 A. Well, at the time I wrote this, this was  
21 correct.

22 Q. I'm not suggesting that --

23 A. I wouldn't be willing to amend the  
24 testimony for that, simply because this was accurate  
25 at the time. I'm certainly willing to acknowledge,

02671

1 in fact, volunteered that the new equation does have  
2 a different correlation coefficient.

3 Q. Yeah, I'm not suggesting that you gave  
4 incorrect testimony at the time, Mr. Spinks. I'm  
5 just asking you, if I were to ask you this question  
6 today, could you agree that the answer could be  
7 correctly stated that 75 percent of the variation in  
8 average cost between wire centers is explained by the  
9 two factors that you list?

10 A. I think so.

11 Q. And on your rebuttal testimony, this same  
12 testimony at page 15, line 18, you say, Between which  
13 costs are significantly different?

14 A. Yes.

15 Q. Do you mean average costs there, as well?

16 A. Well, I mean wire center loop costs. And  
17 the wire center loop costs are average costs for the  
18 wire centers.

19 Q. Thank you. Mr. Spinks, were you in the  
20 room when Mr. Denney testified?

21 A. I believe so.

22 Q. Do you recall when he showed his diagram,  
23 which ended up being admitted as Exhibit 8, which was  
24 a description of the two wire centers with different  
25 customer locations?



02672

1 A. Yes, I do.

2 Q. Okay. Thinking with that exhibit in mind,  
3 would you agree that two wire centers can have the  
4 same average loop costs, but significantly different  
5 individual loop costs?

6 A. Could you repeat that?

7 Q. With Mr. Denney's Exhibit Number 8 in mind,  
8 is it true that two wire centers can have the same  
9 average loop costs, but significantly different  
10 individual loop costs?

11 A. When you say significantly different  
12 individual loop costs, are you referring to -- are  
13 individual loops within a wire center different than  
14 the average, yes.

15 Q. Well, but can individual loop costs between  
16 Wire Center A and Wire Center B differ from one  
17 another significantly and yet produce the same  
18 average number?

19 A. Well, certainly in each wire center you  
20 have a different dispersion of loops which drive loop  
21 cost, and it is possible for two wire centers to have  
22 the same loop cost, but those costs are developed in  
23 different -- due to different kinds of dispersion  
24 patterns.

25 Q. So just to clarify, you could have a wire

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1 center -- two wire centers, each of which contain, on  
2 a very simplified model, 20 loops. Ten of them cost  
3 \$10 in one wire center and 10 of them cost \$20 in  
4 Wire Center A. You have an average of \$15; right?  
5 That's just Wire Center A.

6 A. Okay.

7 Q. And then, in Wire Center B, you could have  
8 20 loops and all of them could cost \$15, and that  
9 would be an average of \$15; is that right?

10 A. Yes.

11 Q. And in those two wire centers, they would  
12 have the same average loop cost; is that right?

13 A. Yes.

14 Q. And yet the \$10 loops and the \$20 loops in  
15 Wire Center A would be different from the \$15 loops,  
16 the population of \$15 loops in Wire Center B; is that  
17 right?

18 A. Yes.

19 Q. Okay. That's all I was trying to ask.

20 A. Okay.

21 Q. I suppose we can save for later the  
22 discussion of whether those are significantly  
23 different or not. Would you characterize the  
24 differences that I gave you in the hypothetical just  
25 now as significantly different individual loop costs

02674

1 between Wire Center A and Wire Center B?

2 A. Well, I'd say that they weren't relevant to  
3 establishing deaveraged rates.

4 Q. That's not what I asked, Mr. Spinks.

5 A. No.

6 Q. They're not significantly different?

7 A. That's my answer, yes.

8 Q. What would be significantly different?

9 A. I don't know. I don't think that's  
10 relevant.

11 Q. Well, you use the term significantly  
12 different on line 18 of the testimony, at page 15  
13 that we were just talking about, so what do you mean  
14 when you say there significantly different?

15 A. Well, like I explained at the beginning of  
16 this, that when I say that, I'm talking about average  
17 loop costs between wire centers. That's the level to  
18 which the cost models have aggregated costs, is the  
19 wire center level. And if you're asking me is there  
20 averaging going on in that process, the answer's yes.

21 Q. What I'm asking you now is how much of a  
22 cost difference is a significant difference?

23 A. I don't know. Within a wire center, the  
24 way I've designed the rates for it, the regression  
25 analysis captures the relationship between density,

02675

1 distance and cost as it's averaged at the wire center  
2 level and uses that to develop the distance-sensitive  
3 rates. Are you asking me are there significant  
4 differences between the distance-sensitive costs  
5 within the zones?

6 Q. I'm asking you what you mean when you  
7 characterize costs as significantly different, and --

8 A. Okay.

9 Q. You disagreed earlier that loop costs of  
10 \$15 are significantly different from loop costs of  
11 either \$10 or \$20, and so I'm trying to further  
12 explore that answer. If that's not significant, what  
13 is?

14 A. Okay. The reason I answered no -- it  
15 probably would have been a more correct answer "I  
16 don't know." In order for statistical significance  
17 to be determined, you have to have a number of  
18 observations to begin with, 10, 20, 30 observations,  
19 which you can subject to a test to see whether there  
20 are significant differences between however you want  
21 to divide them up. And in your hypothetical, you  
22 don't have any of that. You just have this five and  
23 this 10, and I really can't say that -- there's no  
24 basis on which to say they're significant.

25 Q. And so that is using the term significant

02676

1 in its statistical sense?

2 A. Yes.

3 Q. Okay. On page four of this same testimony,  
4 Mr. Spinks, you recommend a Commission workshop to  
5 resolve customer identification issues. Do you  
6 recall that?

7 A. No.

8 Q. Line --

9 A. Do you have the line?

10 Q. Thirteen and 14.

11 A. Okay, yes.

12 Q. And I don't know if it's fair to  
13 characterize it as a Commission workshop. I don't  
14 know what you had in mind there. Why don't you tell  
15 me?

16 A. All right. I think I was keying off of Mr.  
17 Montgomery's testimony at this point, where he had  
18 suggested that if there -- to the extent that there  
19 are issues with customer identification, distances,  
20 how this process would actually be implemented and  
21 work, and we've had examples like pole attachment  
22 agreements, where the industry agrees how it's going  
23 to work together to accomplish something, I sort of  
24 thought that that was maybe what needed to be done to  
25 bring the industry together to some common ground as

02677

1 to how the distance-sensitive identification and the  
2 like would take place.

3 Q. Mr. Spinks, at the conclusion of that same  
4 piece of testimony on page 16, you recommend that the  
5 Commission adopt your proposal because the 12-zone  
6 proposal for US West strikes a fair balance between  
7 administrative ease, customer identification issues,  
8 and implementation costs. Is that your testimony?

9 A. Yes.

10 Q. Does that recommendation assume that  
11 customer identification issues have been resolved?

12 A. I think it assumes that they're resolvable,  
13 that I've not seen, through the company's testimony,  
14 evidence that the issue of how far a customer is from  
15 a wire center poses some problem that makes the  
16 proposal impractical or unachievable. I didn't see  
17 that. And so to the extent -- although I do accept  
18 that this is something new that's not been done in  
19 the context of unbundled loops before and that there  
20 are going to be some issues, perhaps, that will need  
21 to be addressed.

22 Q. Mr. Spinks, in response to a data request  
23 by US West, you stated that you believe the cost of  
24 mapping census blocks to exchanges is minimal,  
25 approximately \$50,000. Do you remember giving that

02678

1 response?

2 A. Yes, I do.

3 Q. What does one get for \$50,000?

4 A. Well, what I had in mind was a database  
5 which, for each US West wire center, identified  
6 within the wire center boundaries what the census  
7 blocks were, what census blocks were contained within  
8 what places within each wire center, and that that  
9 database could then be used to essentially do the  
10 lookup.

11 Q. And your testimony is that that database is  
12 available for US West for the entire state of  
13 Washington for \$50,000?

14 A. No, I don't think that was my testimony.

15 Q. But is that your testimony, if I were to  
16 ask you that question today?

17 A. No. My testimony today would be there's  
18 even better ways that are cheaper, and that is  
19 through the MapQuest type of an approach. And I  
20 think that's probably a better approach than the  
21 census block, although I think that they're both  
22 valid approaches.

23 Q. MapQuest does not identify census blocks,  
24 does it?

25 A. No, it's a different way of identifying

02679

1 customer locations or distances.

2 Q. And MapQuest does not have a data resident  
3 within it that identifies US West's wire center  
4 boundaries, does it?

5 A. No, you shouldn't need them. Well, no, I  
6 don't think you would need them with that approach.  
7 You just put in the address of the wire center and  
8 the address of a customer.

9 Q. Did you undertake any formal study to  
10 analyze or determine the cost to US West to implement  
11 your proposal?

12 A. Well, I read very carefully what the  
13 company had to say about its implementation costs, I  
14 asked, through a number of data requests, different  
15 questions about that cost, and reported that in my  
16 rebuttal testimony.

17 Q. Did you do anything else, independent of  
18 asking the company?

19 A. Well, not so much analysis as understanding  
20 of what information is out there today that's already  
21 available versus what the company said it would have  
22 to create, but which already exists.

23 Q. Mr. Spinks, do you agree that there are  
24 five functions that US West is required to provide  
25 for CLECs through its OSS, including pre-ordering,



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1 ordering, provisioning, repair and maintenance, which  
2 is a single function, and billing?

3 A. Yes.

4 Q. Do you know what modifications US West  
5 would have to make to its systems to incorporate loop  
6 distance information into its pre-order  
7 functionality?

8 A. None.

9 Q. Do you know that?

10 A. Well -- I'm sorry.

11 Q. Do you want me to repeat the questions?

12 A. No. If US West wants to undertake  
13 incorporating loop distance information into its  
14 pre-order system, I'm sure that it has some cost. My  
15 issue and concern is with the necessity for doing it,  
16 and I simply did not see anything in the company's  
17 testimony or data request responses that convinced me  
18 that the company needs to incorporate each  
19 customer's, two and a half million loops data, into  
20 the CLEC's OSS database prior to implementing  
21 distance-sensitive rate proposals, or at any time. I  
22 mean, you know, if the data is available from another  
23 source, I just don't understand the rationale that is  
24 necessary to modify those pre-ordering systems.  
25 The only thing that I could see, and I

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1 agree that the billing system obviously has to be  
2 able to bill. And so if you said what the billing  
3 system -- does the billing system need to be able to  
4 reflect the 12 different rates that would exist under  
5 the proposal, I would say yes, you do.

6 Q. Again, you're anticipating my questions, so  
7 let me just kind of get there quickly. Do you know  
8 what modifications US West would have to make to its  
9 billing system to incorporate loop distance  
10 information into the billing functionality?

11 A. Well, I think that your witness yesterday  
12 explained that they would use a USOC. So I guess  
13 you'd create 12 USOCs, which would populate for each  
14 customer who is a CLEC customer on a  
15 distance-sensitive rate schedule, that one of those  
16 12 USOCs would be attached to that customer's billing  
17 record.

18 Q. And in order for that to happen, isn't it  
19 correct that US West would have to have loop length  
20 information for the particular loop in order to  
21 associate the correct USOC with it?

22 A. No.

23 Q. Why not?

24 A. What's the matter with using MapQuest data?

25 Q. Is MapQuest -- I think I already asked you

02682

1 this. Is MapQuest -- maybe I didn't. Let me just  
2 ask now. Is MapQuest data incorporated into US  
3 West's ordering or billing systems?

4 A. No.

5 Q. Do you know whether or not there are any  
6 databases that contain loop length information that  
7 are linked with or integrated with US West's billing  
8 systems?

9 A. Would you repeat that question, please?

10 Q. Do you know whether or not there are any  
11 databases that contain loop length information that  
12 are linked with or integrated with US West's billing  
13 system?

14 A. No.

15 MS. ANDERL: Your Honor, if I might just  
16 have a moment to check my notes, I think that  
17 concludes my cross, but I want to get through all my  
18 papers.

19 JUDGE WALLIS: Yes.

20 Q. Mr. Spinks, could you take a look at the  
21 Exhibit 261-R, which is your final recommendation,  
22 and compare that once again with Exhibit 256? Do you  
23 see that?

24 A. Not yet.

25 Q. Those two documents? Not yet. Sorry.

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1 A. Okay.

2 Q. Look at the proposal for the 100 to  
3 650-line density band. And I think you'll see, on  
4 Exhibit 256, it's \$18.95, and on Exhibit 261-R, it's  
5 \$24.72, although the other numbers match up quite  
6 perfectly. Can you tell me what accounts for that  
7 difference and which number is correct?

8 A. I can't without referring to my work  
9 papers. Perhaps I could check those over lunch or  
10 something.

11 MS. ANDERL: If I can follow up with  
12 additional questions, Your Honor, after Mr. Spinks  
13 answers that question, I believe that that does, in  
14 fact, conclude my cross.

15 JUDGE WALLIS: Very well. Mr. Kennedy.

16 MR. KENNEDY: I have no questions.

17 JUDGE WALLIS: Ms. Hopfenbeck.

18 MS. HOPFENBECK: I have no questions.

19 JUDGE WALLIS: Ms. Proctor. Mr. Kopta.

20 MR. KOPTA: I'm tempted to ask some  
21 questions about how crows fly and whether their eggs  
22 make good omelets, but I think I'll reserve that.

23 MR. KENNEDY: But they're always  
24 forward-looking.

25 CHAIRWOMAN SHOWALTER: I thought you were

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1 looking forward to lunch.

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

3 BY DR. GABEL:

4 Q. Good morning, Mr. Spinks. I'd like to  
5 begin by asking you a question about Staff's response  
6 to Bench Request Number Three.

7 MS. ANDERL: Your Honor, were those just  
8 responses distributed to the parties? Because, in  
9 fact, I've not been in my office and not received a  
10 copy of that response.

11 MS. RENDAHL: I haven't been in my office,  
12 either, and they were distributed in my absence. I  
13 had requested that they be distributed to all  
14 parties. Now, whether that was done or not, I don't  
15 know. I can make sure that we get copies today, but  
16 I'm not sure if that will --

17 JUDGE WALLIS: Let's be off the record for  
18 just a moment.

19 (Discussion off the record.)

20 JUDGE WALLIS: Let's be back on the record,  
21 please. It appears that the responses to bench  
22 requests from Staff were not distributed to parties  
23 in a way to reach them prior to the start of the  
24 hearing, were not distributed at the start, so we are  
25 securing additional copies and we'll move on to

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1 another topic before taking up issues relating to  
2 those responses. Dr. Gabel.

3 Q. Mr. Spinks, do I recall correctly that you  
4 participated in the USF proceeding before the  
5 Commission Docket 980311?

6 A. Yes.

7 Q. And you're familiar with the Commission's  
8 order in the adjudicatory part of that proceeding?

9 A. Yes, I am.

10 Q. In preparation of your rate proposal, did  
11 you review the Commission's finding on the topic of  
12 the geographic level of granularity, how the size of  
13 the fund should be measured by looking at wire center  
14 cost or exchange cost or some other measure of  
15 granularity?

16 A. I think I recall that they had agreed with  
17 the Staff recommendation to use the exchange level.

18 Q. I'm going to hand you, Mr. Spinks, a copy  
19 of one or two pages from the 10th Supplemental Order,  
20 and in case your attorney would like to see a copy,  
21 I'd like you to take a look at paragraph 71 of that  
22 order. Mr. Spinks, could you read into the record  
23 the Commission's statement at paragraph 71?

24 A. Certainly. It says that the Commission has  
25 estimated cost of service for each wire center. At

02686

1 this point in time, verifiable data, such as line  
2 counts and loop lengths, are unavailable at a finer  
3 level of granularity.

4 Q. Okay. Now, your proposal is to provide  
5 unbundled loops at a rate that's at a finer level of  
6 granularity than the wire center; is that correct?

7 A. Yes.

8 Q. All right. Would you just address the  
9 concern that I believe the Commission raised at this  
10 paragraph about the quality of the data that's  
11 available below the wire center level, why that --  
12 well, just -- I don't know how to precisely phrase  
13 the question, other than saying that this is an issue  
14 that was of concern to the Commission in the USF  
15 docket, and what would you say regarding that similar  
16 issue today in this proceeding?

17 A. Sure. What Staff has done -- well, in  
18 talking about that data is unavailable at a finer  
19 level of granularity, we're talking about the ability  
20 to estimate costs at lower than the wire center  
21 level. What the Staff's distance-sensitive proposal  
22 has done is create a way in which you can estimate  
23 costs at a finer -- at a level of granularity less  
24 than the wire center by estimating the statistical  
25 relationship between costs, loop lengths, and the

02687

1 density of the wire centers.

2 Q. Well, then, let me turn now to Bench  
3 Request Number Three, Staff's response to Bench  
4 Request Number Three.

5 JUDGE WALLIS: Let me ask if the parties  
6 have a copy of those documents? Have they been  
7 distributed, Ms. Rendahl?

8 MS. RENDAHL: Yes.

9 JUDGE WALLIS: Thank you.

10 Q. Mr. Spinks, you prepared Staff's response  
11 to Bench Request Number Three?

12 A. I did.

13 Q. How did you produce the plot of points that  
14 are attached to this response?

15 A. The regression software in the Excel  
16 program has an option to produce residual plots. It  
17 also prints out the specific residual data associated  
18 with the regression, and this plot was -- it was  
19 asked for that I plot the residuals against the log  
20 of cost in the bench request, and that's what this  
21 graph reflects.

22 Q. And I thank you for that response. Are you  
23 aware of statistical programs that also plot such  
24 diagrams?

25 A. Yes, there's lots of different regression



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1 software.

2 Q. And I've handed you a four-page document  
3 with four diagrams. Would you accept those as the  
4 product of such a program?

5 A. Yes, that's what they appear to be.

6 Q. Okay. Would you accept that on the first  
7 page, that this plot corresponds to your US West  
8 residual plot that you generated using Excel?

9 A. It doesn't look the same.

10 Q. Right. But at the top of page one of this  
11 four-page handout, you see the regression results?

12 A. Yes.

13 Q. And would you accept that those are the  
14 same regression results that appear in your Excel  
15 file, US West regression in folder sheet one?

16 A. Yes, they are. I don't doubt that they're  
17 the same; I just note that they look different.

18 Q. Okay. And looking at the plot of the  
19 residuals that I have provided you here in the first  
20 page, do you observe anything in the pattern of the  
21 residuals that -- do the residuals, for example, do  
22 they look random?

23 A. No, they -- no. There appears to be a  
24 pattern in them.

25 Q. And that pattern, for example, let's look

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1 at the high-cost wire centers. What would that  
2 pattern, where the value of E, the residual being  
3 greater than zero, what would that pattern indicate?

4 A. Well, there are a number of -- the reason  
5 we do this and the reason I laid the plots out to  
6 begin with is that when we do regression analysis, we  
7 hope to create the best linear unbiased estimators in  
8 the regression. That's why we look at the residuals,  
9 examine them visually, to see whether patterns exist.

10 When patterns exist, they can indicate a  
11 number of statistical problems, such as nonconstant  
12 variance, multicollinearity.

13 THE REPORTER: I'm sorry, multi --

14 THE WITNESS: Multicollinearity.

15 THE REPORTER: Can you spell that for me?

16 THE WITNESS: No.

17 M-u-l-t-i-c-o-l-l-i-n-e-a-r-i-t-y.

18 Q. Never look at me for guidance on spellings.

19 A. I was looking at the heavens. And in any  
20 event, this first graph appears to show a pattern  
21 that would be indicative of one of these statistical  
22 concerns.

23 Q. And would you agree, Mr. Spinks, that the  
24 dependent variable E, the variable that's on the Y  
25 axis, is the residual, and the residual is calculated

02690

1 as the actual value minus the predicted value?

2 A. Yes.

3 Q. And so where we -- would you agree, Mr.  
4 Spinks, that where we observe a value of E greater  
5 than zero, that indicates that the actual cost  
6 estimate from the Hatfield Model is greater than the  
7 value being predicted by your regression?

8 A. That's correct.

9 Q. And so finally, just on this last page,  
10 where we see to the right of the word line -- right  
11 of the word LN cost, the log of cost, that most of  
12 the values are greater than zero. That would  
13 indicate, for high-cost exchanges, that the model is  
14 under-predicting the level of cost?

15 A. That's correct.

16 Q. Now, Mr. Spinks, could I ask you to turn to  
17 page two of this four-page handout?

18 A. I have it.

19 Q. Okay. Now, looking at the plot of this --  
20 of these residuals, where on the X axis we have  
21 distance, the average wire center distance, and on  
22 the Y axis, we have residuals, do you observe  
23 anything of note in the pattern of these residuals?

24 A. Not a great -- there isn't a very strong  
25 pattern here, but there is somewhat of a pattern,

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1 similar to the first pattern.

2 Q. Okay.

3 A. But, again, not -- it doesn't seem to be as  
4 strongly --

5 Q. And then, if I could now ask you to turn to  
6 the third page, which is the GTE data, and first, at  
7 the top of the page, you see some regression results.  
8 Do those regression results look familiar to you?  
9 They're identified as corresponding to what appears

10 --

11 A. Yes.

12 Q. -- in TLS-9, revised work papers?

13 A. Yes.

14 Q. Okay. Now, looking at these residuals, do  
15 these residuals appear to you to be random, or do you  
16 see a non-random pattern in these residuals?

17 A. I think it looks very good until you get to  
18 the upper end of the cost. And once again, I think  
19 you see that same phenomena, although you don't see  
20 the nonlinearity that you've seen in the first plot.

21 Q. And then, looking at page four, looking at  
22 the relationship between distance and the GTE  
23 residuals, do these residuals appear to you to be  
24 random?

25 A. Yes, these are clearly random.

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1 Q. Okay. Now, having looked at these residual  
2 plots, Mr. Spinks, do you have concerns about your  
3 rate recommendations associated with your regression  
4 analysis of the Hatfield data?

5 A. Well, I think what the residual plot shows  
6 is that in my data transformations, I wasn't  
7 successful in removing the nonlinearity from the  
8 data, or not completely successful, because we didn't  
9 wind up with a random set of residuals. What that  
10 means is something I was perfectly willing to concede  
11 without going through this, and that is it was likely  
12 that there was some bias in the estimation  
13 coefficients.

14 The question -- but if you're asking the  
15 question, well, does some bias in the estimation  
16 coefficients mean that your proposal should be thrown  
17 out and not used, I wouldn't agree with that. And  
18 the reason for that would be that the -- because  
19 we're reconciling back to the statewide average, even  
20 if you have some bias in the coefficients and you  
21 haven't -- to begin with, we don't know the true cost  
22 and we never will, so this is just another estimate  
23 of what that tries to estimate what the cost is. The  
24 fact that it, again, may have some bias in it  
25 shouldn't be taken too seriously insofar as you're

02693

1 reconciling the numbers back to the statewide average  
2 anyway, so --

3 Q. Thank you. Mr. Spinks, you testified also  
4 in Phase I of this docket?

5 A. Yes, I did.

6 Q. And are you familiar with Staff's position  
7 in Phase I regarding deaveraging of loop prices?

8 A. Yes.

9 Q. Would you please explain for me what  
10 factors changed between Phase I and Phase III,  
11 wherein Phase I Staff did not favor deaveraging, and  
12 then, in Phase III, you have a proposal not only to  
13 deaverage wire center cost, but also by distance. So  
14 it seems like you moved from not favoring deaveraging  
15 to a very aggressive proposal.

16 A. Sure. In Phase I, our position wasn't that  
17 you don't deaverage; it was that we're not ready --  
18 it's not prime time for deaveraging, because we had  
19 concerns with unless a universal service fund, we  
20 knew where we were going with that, that it would be  
21 -- if you deaveraged, you may cause rates to increase  
22 in rural areas without having offsetting funding to  
23 produce what the act requires, which is reasonably  
24 comparable rates.

25 The events of the FCC have now made it

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1 important to consider the question of deaveraging.  
2 And I have to say, from the time of Phase I up until  
3 this fall, we had discussed a number of different  
4 ideas for it. This is something that has always been  
5 on the back burner and on the blackboard. We had  
6 several different ideas for how to deaverage. And  
7 because we had this time to kind of think about  
8 different ways of doing it, we had one proposal that  
9 was just simply, there's three zones, it's the urban,  
10 suburban and rural, and it didn't matter what wire  
11 center you were in, whether it was the smallest one  
12 or the largest one. Everyone had a central zone,  
13 Zone A, and that was the cost.

14 But as we began looking at the data, it's  
15 very clear that density is a very strong explainer of  
16 cost. So we then developed some models that looked  
17 like we had density zones, and within each density  
18 zone we estimated a distance-sensitive equation. And  
19 in the largest density zones for US West, this worked  
20 out fine. In the first two, we had very significant  
21 results. But when we got down to the rural wire  
22 centers, where you had so much diversity of density  
23 and loop length and cost, we didn't get significant  
24 results. So -- but that would have been the ideal.  
25 That's what we thought would have been the ideal, was

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1 to hold density costing and simply estimate the loop  
2 length within each density zone. But again, we  
3 didn't have the statistical data to do that with, is  
4 the other thing. If we had, like, route miles or  
5 other data, which isn't available yet, we might have  
6 been able to develop something.

7         So in order to make any kind of a  
8 distance-sensitive proposal, we found we had to  
9 aggregate all that data together. It wasn't the most  
10 desirable way to do it from a statistical approach,  
11 and I think one of the results that you see here is  
12 the problem that you get when you estimate an  
13 equation across the large range of density and the  
14 large range of loop lengths, is as the density  
15 decreases, loop lengths get longer, and that's just a  
16 fact of the data. And you've also got loop length,  
17 specific loop length data, and the two variables are  
18 related to each other to some extent. I think that's  
19 part of what you're saying in these residual plots,  
20 which means coefficients aren't exactly what there  
21 would be.

22         But if you put the two together, you still  
23 have a legitimate equation with which to estimate  
24 cost with. So that was kind of the process that we  
25 used to get to where we were going. Again, it's not



02696

1 what we think is the ideal, but we think it is  
2 sufficient.

3 Q. My last area of questioning, Mr. Spinks, is  
4 the implementation issue. This morning, in response  
5 to a question from -- I believe it was Ms. Anderl,  
6 you said you believed that distance could be measured  
7 using the MapBlast, or that's one possibility.

8 As a cost analyst, I'd just like you to  
9 address one issue here. Is there a problem using one  
10 source of information for distances, perhaps  
11 MapBlast, when the network was laid out in the  
12 Hatfield Model, it may have been taking a different  
13 approach to running the cables than the driving  
14 distances that are provided by MapBlast? Is there  
15 any problem with the mismatch or --

16 A. I don't think -- I don't think that it  
17 creates a problem. It creates a difference, but  
18 those are the sorts of differences which the industry  
19 has had and dealt with in rate designs for services  
20 far into the past, in terms of the way it measures  
21 rates for an exchange, mileage, various interoffice  
22 mileages. The actual route is one distance, the  
23 crow flies distance is another distance, and so long  
24 as the cost that underlies the actual route is  
25 captured in the rate of the crow flies distance, I

02697

1 think you're okay. And then, on top of that, in this  
2 case, you're reconciling back to the statewide  
3 average. So I don't see a problem.

4 DR. GABEL: Thank you.

5 JUDGE WALLIS: In conjunction with Dr.  
6 Gabel's questions, there was some reference to the  
7 Staff responses to bench requests. Let me identify  
8 those for the record now. Exhibit 401 for  
9 identification is the response to Bench Request One;  
10 402, the response to Bench Request Two; 403, the  
11 response to Bench Request Number Three. The Exhibit  
12 403 for identification contained the residual plots  
13 to which Dr. Gabel referred.

14 And I'm marking as Exhibit 404 for  
15 identification a four-page document, also with  
16 residual plots, that Dr. Gabel used in his  
17 questioning. And let me ask if there's objection to  
18 receiving Exhibits 403 and 404?

19 MR. EDWARDS: May I ask a question?

20 JUDGE WALLIS: Yes.

21 MR. EDWARDS: With respect to page three,  
22 at the top, where it says corresponding with file  
23 TLS-9 revised work papers, am I to understand that's  
24 from the work papers distributed last evening?

25 JUDGE WALLIS: Mr. Spinks?

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1 THE WITNESS: I provided Dr. Gabel with  
2 that disk. He said that it was the revised he was  
3 referring to.

4 MR. EDWARDS: I'm just trying to make sure  
5 I know which work paper.

6 DR. GABEL: That is the name of the file  
7 that Mr. Spinks gave me.

8 MR. EDWARDS: Okay, thank you.

9 THE WITNESS: And then I'd point out that I  
10 don't think there was any difference in the residual  
11 plots that I originally used.

12 MR. EDWARDS: You're beyond me there. I  
13 don't have any objection.

14 MS. ANDERL: I have a question, Your Honor.  
15 I don't believe that I have an Exhibit 402, because I  
16 did not think Staff responded to a Bench Request  
17 Number Two.

18 JUDGE WALLIS: What I would like to do now  
19 is just concentrate on 403 and 404, and we can handle  
20 the administrative details on the others at a later  
21 time.

22 MS. ANDERL: 403 is response --

23 JUDGE WALLIS: The Staff response, and 404  
24 is the document that we provided that Dr. Gabel  
25 prepared.

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1 MS. RENDAHL: Your Honor, I believe 402  
2 would be US West's response to Bench Request Number  
3 Two; is that correct?

4 JUDGE WALLIS: Let's just kind of hold that  
5 for right now.

6 MS. ANDERL: No objection to 403 and 404.

7 JUDGE WALLIS: Okay.

8 MS. HOPFENBECK: No objection, Your Honor,  
9 but we were one copy short of 404. So I'd like to  
10 have an additional copy.

11 JUDGE WALLIS: We'll see that one is  
12 provided.

13 MS. HOPFENBECK: That would be great.

14 JUDGE WALLIS: 403 and 404 are received in  
15 evidence. Let me ask if there are questions from the  
16 Chairwoman or the Commissioners?

17 CHAIRWOMAN SHOWALTER: I've got a few. Try  
18 to get through them fast.

19 JUDGE WALLIS: See how far we get.

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

21 BY CHAIRWOMAN SHOWALTER:

22 Q. I see from my comments yesterday I subtly  
23 converted Dr. Gabel from MapQuest to MapBlast, which,  
24 while we're on that subject, do I understand from you  
25 that, at this time, in the evidence that we have, we

02700

1 don't have a good estimate of the time or cost that  
2 it would involve to automate MapQuest or MapBlast  
3 into the ILECs' systems?

4 A. No, I'm sure we don't. I don't, but I also  
5 don't see the need to do that.

6 Q. Why not? Do you think manual lookup is  
7 sufficient?

8 A. Well, it seems to me that the industry was  
9 able to work together on the pole attachment type of  
10 agreement, wherein the companies can agree on a set  
11 of procedures that will be done that avoid this  
12 manual lookup question.

13 I think that Mr. Montgomery had suggested  
14 that they could do some sort of a billing adjustment.  
15 And while that's not probably the best way, I think  
16 the point is that there are alternatives out there.  
17 And I sense a great deal of reluctance on the part of  
18 the ILECs to work towards a cooperative agreement  
19 because the Commission hasn't ordered the  
20 distance-sensitive type proposal.

21 If such were to become the -- maybe not  
22 immediately, but it was understood that we would be  
23 using this type of a rate structure and we were set  
24 to the task of figuring out the detail of how we're  
25 going to use and what we're going to use, that we

02701

1 would be able to produce results.

2 US West does have to change its billing  
3 database to incorporate those USOCs in there to bill.  
4 I don't deny that. That's not a seven and a half to  
5 12 and a half million-dollar job. So the question  
6 about the location data and how that gets done  
7 doesn't seem to me to be an insurmountable problem.  
8 It's just that we have to put our heads together and  
9 figure out how to do it.

10 CHAIRWOMAN SHOWALTER: Okay. I don't want  
11 to hold people up for lunch, so why don't I pick up  
12 after lunch.

13 JUDGE WALLIS: Okay. Let's be off the  
14 record for a minute.

15 (Discussion off the record.)

16 JUDGE WALLIS: Back on the record. We'll  
17 resume the hearing at 1:15.

18 (Lunch recess taken.)

19 JUDGE WALLIS: Let's be on the record,  
20 please. Commissioner Gillis.

21 COMMISSIONER GILLIS: I have a couple.

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

23 BY COMMISSIONER GILLIS:

24 Q. You were answering some questions or asked  
25 some questions about the potential cost of

02702

1 incorporating some of these commercial databases,  
2 like MapQuest, into carriers' systems as a way to  
3 implement your recommendation. But kind of a related  
4 question I'm interested in is not so much cost --  
5 that's one question, but another question is that  
6 type of procedure, using commercial databases, would,  
7 as I understand it, rely -- or make assumptions that  
8 the highway route miles is a reasonable  
9 representation of distances the way the system is  
10 engineered, and I'm interested in your perspective on  
11 it.

12           Is that a reasonable assumption to make,  
13 that highway route miles fairly represent the way  
14 that the loops are deployed, or not?

15       A.    Yes, I think, in the main, that it is  
16 representative of distance. I think it's a real good  
17 measure to start with, at least, in this process, if  
18 we're going to have distance-sensitive rates. I  
19 think the thing to keep in mind is the Staff proposal  
20 is zero to 12 kilofeet, 12-24, and greater than 24.  
21 There are a number of exchanges in Seattle where  
22 almost all, if not all the loops, are within the  
23 12-kilofeet range. There isn't even an issue of  
24 identification. Every single loop in the wire center  
25 is going to be in the 12-kilofeet range. In their

02703

1 largest wire center down there, all but 1,800 of the  
2 some 60,000 or more loops are within the 12-kilofeet  
3 range.

4           So the only time that I see an issue coming  
5 up with distance to begin with is when a customer  
6 might be located, they do a MapQuest, and he's 11 and  
7 a half kilofeet. And the question is, well, is it  
8 really -- should he be in the 11 or is it the 12.  
9 And in those cases, you might want to do a manual  
10 check. You might want to take your map and, in that  
11 case, look at the distance from the central office to  
12 the location and get a measurement that way.

13           But I think, far and away, the greatest  
14 number of loops for the company are not -- they don't  
15 all lie on that 12-kilofeet boundary or the 24-foot  
16 boundary. There's relatively few numbers of loops  
17 that need to be where identification might be an  
18 issue.

19           Q.    So you're suggesting that the issue arises  
20 more on loops that are in wire centers outside of  
21 major metropolitan areas?

22           A.    Well, the question of identification --

23           Q.    Yeah.

24           A.    -- using the MapQuest question, is that I  
25 think MapQuest does a good job of getting you close



02704

1 to the distance, and certainly with respect to the  
2 distance bands that we're proposing, there's only  
3 three of them, it would seem to me MapQuest is, far  
4 and away, more times going to give you an estimate  
5 that's two, three, four, five, six, seven, eight,  
6 nine, ten kilofeet. And every one of those cases,  
7 you don't have to do lookup, you don't have to do a  
8 check; you just have to know it's that distance and  
9 you know which USOC applies, depending on what  
10 density zone you're in.

11 Q. Do you think incorporating a distance  
12 measure into the cost calculation, making  
13 differentiation on distance, has any implications for  
14 investment patterns within an exchange relative to  
15 alternatives that might treat the costs as averages  
16 within the exchange?

17 A. Well, yes, and that's one of the major  
18 impetus behind doing the recommendation. Even though  
19 the estimates are admittedly imperfect, the fact is  
20 the farther out from the central office one goes, the  
21 more they have to pay for the loop. And that sends  
22 the right price signal in terms of what alternative  
23 facilities options they have available, as to whether  
24 they're economically effective.

25 Q. But for, at least intuitively, a competitor

02705

1 entering on UNEs would tend to focus on the shorter  
2 loops, wouldn't they, under your proposal, compared  
3 to the alternative of if the loops were priced the  
4 same?

5 A. Well, my understanding is they intend to  
6 focus on the densest areas of the state to begin  
7 with, which is also the place where there's the  
8 shortest --

9 Q. This is within an exchange?

10 A. Yes, but the zero to 12-kilofoot range is  
11 so broad now. See, under the old proposal, with the  
12 kilofoot increments, one could -- I think there might  
13 have been incentive to really tightly focus in the  
14 downtown core. I think with this broader proposal  
15 that goes out 12 kilofeet, you're now out clearly  
16 into residential neighborhoods in most of the  
17 exchanges, and so there's less incentive, I think,  
18 there to focus on very narrowly in the downtown.

19 But as far as your business plans have been  
20 stated, is that they tend to -- intend to focus, I  
21 guess, in urban areas versus rural in terms of  
22 offering local service.

23 Q. But I mean, where it seems like it would  
24 come into play would not necessarily be the question  
25 of investing in downtown Seattle versus investing in

02706

1 Omak. The question is, within the Omak exchanges,  
2 when you have a distance-sensitive pricing versus the  
3 alternative, not having distance-sensitive pricing,  
4 that, intuitively, at least, it seems like the  
5 structure you propose would encourage more investment  
6 close to the central office and then, for the longer  
7 loops, perhaps less investment. Is that right? In  
8 the Omak area, within the rural area?

9 A. Investment by?

10 Q. Well, by UNE -- first of all, UNE-based  
11 competitors?

12 A. Okay.

13 Q. Who would be purchasing these loops. I  
14 mean, that's the cost then and becomes higher as you  
15 go out farther?

16 A. That's right. So they would -- I guess I  
17 don't see the investment piece as -- I think they  
18 would tend to focus in rural areas in the core where  
19 the loop price is less costly and use those loops to  
20 the extent they don't have more economic  
21 facility-based alternatives. Whereas under a flat  
22 zone proposal, the flat rate may be so high in a  
23 rural area -- and I think I need an example of one of  
24 the tariffs or -- with 100-some dollar a month wire  
25 center rate, that versus a distance-sensitive rate

02707

1 where, at least in the downtown, you could get a loop  
2 for 30 or \$40.

3 That may act as an incentive for CLECs to  
4 be willing to serve a larger area than simply the  
5 dense, urban parts of the state.

6 Q. But as I understand, the general belief  
7 that you're putting forward is that the alternative  
8 would be no investment in a Pateros --

9 A. Yes.

10 Q. -- in your example?

11 A. Yes.

12 Q. Versus some investment that would occur  
13 close to the loop?

14 A. Yes.

15 Q. I mean, to the central office?

16 A. Yes, you could get -- yes, you have more  
17 potential for drawing them out there and getting  
18 those investments.

19 Q. Just given everything you've just said, the  
20 series of questions I just asked you, I'm wondering,  
21 does it really make a difference? I mean, the fine  
22 tuning that you're suggesting, you started off by  
23 saying that in Seattle, the loops are under 12  
24 kilofeet anyway, so the distance-sensitive measure  
25 really doesn't matter, and it may matter in more

02708

1 rural locations where investment is, at the present  
2 time, not going anyway. So what's in it for us, this  
3 additional fine tuning?

4 A. When I was talking about Seattle area, the  
5 large zone size, what that facilitates is customer  
6 identification. So --

7 Q. But there wouldn't be a distinction in your  
8 proposed zones or tariffs, would there?

9 A. Well, there are --

10 Q. If they're all under 12 kilofeet?

11 A. But they're not, they're not. There are  
12 several wire centers that were almost all -- all or  
13 almost all are, but there's 12 wire centers there.  
14 There are a lot of loops in the 12 to 24-kilofeet  
15 range in that Seattle metropolitan area. They  
16 represent residential suburban areas, and they would  
17 be served under a distance-sensitive rate with I  
18 think a rate that's lower than -- well, it would be  
19 14.90, as opposed to 11.88, if you're within 12  
20 kilofeet, so --

21 Q. But to the extent, going back to the urban  
22 area, then, in Seattle, you're saying there are some  
23 loops that are longer and may be served under the  
24 distance-sensitive measure, but in fact, using your  
25 proposed structure, it would be less attractive for a

02709

1 UNE-based competitor to serve those distance-based --  
2 those customers on the long loops than under an  
3 average proposal?

4 A. Yes, in the sense of buying and using the  
5 unbundled UNE, but it also correctly aligns or  
6 attempts to align the prices with the relevant  
7 economic costs that the ILEC faces at that particular  
8 distance. And when the CLEC is faced with that cost,  
9 he can make a correct -- they can make correct  
10 economic choices about whether facilities-based or  
11 what type of ways they can serve the customers out  
12 there in an economically efficient way.

13 Q. I understand that concept and why you're  
14 proposing it from a theoretical point of view, and  
15 the desire to make prices close to cost to send the  
16 right economic signal. I understand that. But from  
17 a very pragmatic point of view, where we sit today,  
18 is that the competitors are investing in --  
19 primarily, there are exceptions, but the competitors  
20 are investing in downtown areas, investing in  
21 business customers, and I guess one question we've  
22 already explored is does your structure change that  
23 incentives beyond what they are now to get out to  
24 other areas quicker.

25 But, secondly, given that's where they

02710

1 appear to be investing, and who knows whether those  
2 investment plans will change quickly or slowly, but  
3 is the additional complexity that you're suggesting  
4 to us worth it right now, given the prices are going  
5 to be about the same anyway in the places where  
6 people are really investing, or is that complexity  
7 something you may want to look at a few years from  
8 now?

9 A. Well, my thought was if the Commission had  
10 some -- wasn't completely comfortable with  
11 implementing a distance-sensitive proposal, that one  
12 of the options it has is to certainly adopt one of  
13 the flat zone proposals with directives regarding  
14 future work and timetables for how to implement  
15 distance-sensitive. I think that's a reasonable way  
16 to go, too.

17 Q. Let me turn to one other set of questions.  
18 A couple of the witnesses we've heard over the past  
19 couple days have made the observation that the level  
20 of precision that we can estimate the average cost  
21 within a zone decreases the more disaggregate way we  
22 go. The justification is the law of averages. Do  
23 you agree with that?

24 A. I think I do and I don't, if I'm allowed  
25 to. Yeah, I think there's some truth that the

02711

1 farther out you get, the more diverse the situations  
2 are in which costs get incurred and you get a wider  
3 variation in cost, and it does probably get more  
4 difficult to find a single cost that's representative  
5 of -- there's a wider variation in cost the farther  
6 out you get.

7         On the other hand, the proposed structure  
8 is certainly nothing less than a step in the right  
9 direction. You are aligning prices with the way  
10 costs are incurred. And I think every witness in  
11 this case that has testified to cost has said  
12 something to the effect, yes, nobody disputes the  
13 longer the loop is, the higher the cost.

14         What the dispute's about is, at 10  
15 kilofeet, you might be into a kind of terrain  
16 condition that actually causes you to incur a higher  
17 cost than the cost is at 11 kilofeet. And the  
18 question is, you know, what does that mean for the  
19 model.

20         And I guess the way I looked at those  
21 variations, and it's true that they could exist, is  
22 that you smooth all that over in a rate design. That  
23 is, you don't try to mimic -- I mean, the whole  
24 reason we use models is to keep from going out and  
25 actually physically measuring and assigning a cost to



02712

1 each individual loop. That would be an expensive and  
2 time -- you know, time consuming sort of an  
3 undertaking that nobody would really ever do, so we  
4 estimate use averages to do this estimation.

5 Q. Now, I don't think I've heard anybody  
6 dispute the theoretical notion that the price should  
7 be aligned with the cost, but it seems like the  
8 dispute is over how accurate we can be in actually  
9 estimating those costs to base prices on.

10 And the question that's raised is -- I'll  
11 just put it to you more directly. Do you believe  
12 that we can be as accurate in estimating average  
13 costs at a wire center level with models as we can be  
14 estimating average costs at say a study area level?  
15 Just the nature of models and the fact that, you  
16 know, there are wide differences and local levels  
17 don't get averaged out.

18 A. Yes, I think I agree with what I heard some  
19 of the witnesses say yesterday about the higher up  
20 you go, the -- and the broader area you go, the less  
21 -- the more accurate the estimate becomes. And I  
22 agree with that.

23 But, again, at the wire center level, where  
24 you're disaggregating and you don't really have the  
25 underlying, the granularity of the data that you need

02713

1 to do it in a perfectly accurate way, you still have  
2 estimation methods like that Staff's used that give  
3 you what I think are reasonable ways, if you want to  
4 do this, that you can accomplish it. And it  
5 necessarily involves smoothing over a number of  
6 situations that -- such as a case where you could  
7 actually have a higher cost at 10 kilofeet than 12  
8 kilofeet.

9 Q. And just -- your proposal suggests the most  
10 zones of any of the proposals on the table, at least  
11 suggested, so I take it from that that you are  
12 comfortable that the level of disaggregation or the  
13 number of zones that you're suggesting, that we can  
14 be confident that we are accurately estimating  
15 underlying cost at all the zones?

16 A. Well, I guess where I get my comfort is  
17 from the fact that we've already found what the  
18 statewide average rate is, and that we're reconciling  
19 back to that. The second thing is that if you look  
20 at the unbundled loop rate -- or not the unbundled,  
21 but the distance-sensitive Centrex rates, for  
22 instance, that US West has, and if you look back at  
23 my proposal when I had it broke into kilofeet zones,  
24 you'll find that the costs were quite similar to each  
25 other.

02714

1           In other words, the model isn't predicting  
2 copper cable costs that are widely different from the  
3 same kinds of cost estimates that GTE -- or I'm  
4 sorry, that US West has made for its Centrex loops in  
5 distance-sensitive schedules. So that's where I feel  
6 comfortable that the model isn't widely -- you know,  
7 that the cost in the greater than 24, the true cost,  
8 is widely different than the cost that's being  
9 estimated.

10          Q.    And your point is that -- tell me if this  
11 is a wrong statement, but as I understand what you're  
12 saying is that you're not necessarily arguing that  
13 the models can provide accurate point estimates of  
14 costs at the wire center level, but they serve as an  
15 appropriate statistical method to allocate costs that  
16 were estimated at the study area for purposes of  
17 disaggregation; is that what you're saying?

18          A.    Yeah, I think that's --

19                COMMISSIONER GILLIS:  Okay, thank you.

20                JUDGE WALLIS:  Chairwoman Showalter.

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

22 BY CHAIRWOMAN SHOWALTER:

23          Q.    Back on MapQuest, it may be a small  
24 technical point, but at least the web services I've  
25 seen measure it in terms of miles, not kilofeet. Do

02715

1 you know, does MapQuest yield a kilofeet answer  
2 itself?

3 A. I doubt it, but 5.280 kilofeet is a mile.  
4 A kilofeet is a thousand feet, so a mile is 5,280, so  
5 it's a fairly simple conversion. And also, in miles,  
6 they're also in tenths of miles, I think, is what  
7 I've seen. So if it's 1.1 miles, that's easily  
8 converted to kilofeet, to six point --

9 Q. But either some person or some computer or  
10 program has to do that conversion -- or  
11 alternatively, can you state your proposition in  
12 tenths of miles, as opposed to kilofeet?

13 A. True, true. You could. I was working with  
14 kilofeet data. They could certainly be converted, 12  
15 kilofeet to two point zone miles. In fact, that  
16 might be the simpler way to do it. That's a good  
17 point.

18 Q. That's certainly the way most people think,  
19 is in miles. I guess I want to ask some -- well, I  
20 want to compare wire center levels to exchange levels  
21 to your distance/density formula.

22 A. Okay.

23 Q. And I guess the first question is, compared  
24 to some division of the list of wire centers into  
25 three or four or five, any number of segments or

02716

1 zones, comparing that to your approach of a  
2 distance/density formula, superimposed on -- well,  
3 not just wire centers, but the exchange, can you help  
4 me with how much more meaningful that is? Is there  
5 any kind of measure for how much more accurate that  
6 is?

7 A. No, I don't -- the idea behind the exchange  
8 was to preserve for us the question about trueing up  
9 universal service costs with unbundled loop rates,  
10 because subsidies need to be portable. So you know,  
11 if there's a loop that costs -- that has a \$15  
12 subsidy associated with it and a CLEC starts  
13 providing that loop to -- starts providing service to  
14 the customer and the loop goes to the CLEC, the CLEC  
15 pays the full cost of the loop, but then gets the  
16 subsidy back.

17 Q. I mean, it seems like you're answering the  
18 question in a qualitative sense. I understand that  
19 if you could do this distance/density formula, it  
20 should be more accurate than just the wire center  
21 level, but how much more accurate?

22 A. Okay. We don't know what the true costs  
23 are. That's the big mystery. And what all the  
24 models are competing to do is say, I got the right  
25 answer, or my answer's closer than your answer. And

02717

1 we go through this process of what inputs and how the  
2 calculations are made, and I think it's through that  
3 process that you have to develop your own level of  
4 comfort with the relative robustness of the estimates  
5 that are coming out of the models.

6           There have been a number of issues, I  
7 guess, pointed up with the relative accuracy  
8 question. I would suggest that that's not the issue.  
9 The issue is rate design. Do you design rates that  
10 exactly mimic cost if you knew what the true cost  
11 was, or don't, you know, or do you average them  
12 somewhere.

13           And you know, if you go to the McDonald's  
14 in Tumwater, it costs the same there as it costs over  
15 in Lacey or in Olympia or anywhere else for a burger,  
16 but are the costs of producing that burger there the  
17 same? I doubt it. Everybody in competitive  
18 industries -- averaging goes on all the time. So  
19 this kind of quest for the exact cost and then attach  
20 the price to that I think is a bit of a red herring.  
21 I think that with rate design, you can overcome those  
22 issues by simply we found a statewide average, we  
23 reconcile our estimates back to that, and that gives  
24 us a rate design which is usable.

25           And although it can't exactly mimic costs

02718

1 at every point along where they're applicable on the  
2 average, we should be comfortable with it.

3 Q. I guess maybe I used the wrong word to say  
4 accurate, if I did say accurate. I meant how much  
5 richer or how much more appropriate are the cost  
6 zones produced by your method versus the simple  
7 straight wire center method?

8 A. Well, I don't think there's a way to  
9 quantitatively measure it, but if you look at the  
10 design, it's more -- it's richer in the sense that  
11 not only do costs vary because you're in a rural  
12 versus a suburban or urban area, but they also vary  
13 by the other driver of cost, as you get farther away  
14 from a central office, your loop will cost you more.

15 So you have two sieves, if you will, that  
16 you're sifting things through, instead of one, and  
17 that produces a finer estimator.

18 Q. Okay. Then, also, I'd like to talk a  
19 little bit about a wire center level versus exchange  
20 level. If we were not going to go any finer than  
21 wire center level and we're looking at a list of wire  
22 centers, would you agree that it's better to keep at  
23 the wire center level than aggregate into exchange  
24 levels if the concern is -- I want to say accuracy,  
25 so I know that's the wrong word, but --

02719

1 A. No, I understand.

2 Q. Appropriate reflection of cost.

3 A. You do get more economically efficient  
4 prices if you use the wire center. And in fact,  
5 that's one of the reasons why I said that using wire  
6 centers versus exchanges is not a drop-dead issue for  
7 Staff. It's the idea that we've used exchanges in  
8 the -- for the USF purposes, and my thinking is we  
9 need to think through, if we're going to go to the  
10 wire center, what that means ultimately for how we do  
11 universal service, what level -- are we going to  
12 calculate those costs at the same level.

13 I'm not even sure, and that depends on a  
14 yet to be had universal service plan from the  
15 legislature. So although we have something temporary  
16 in place today which doesn't rely on zones, if we  
17 went forward and that was the plan going forward, or  
18 something similar to that, then I don't think  
19 maintaining the exchange level matters.

20 But if we eventually see something coming  
21 out of legislature and we have our own state USF  
22 plan, we've already decided that that should be  
23 calculated at the exchange level, and we should  
24 examine what that's going to mean for the unbundled  
25 loop at the level that we aggregate that.



02720

1 Q. But I'm glad you brought that up, because I  
2 think you said that you, in part, based your -- or  
3 maybe in whole, based your exchange level  
4 recommendation on the earlier proceedings of this  
5 Commission making a recommendation to the legislature  
6 about universal service fund.

7 A. Right.

8 Q. And as you know, I wasn't there at the  
9 time. But since we don't have authority to set the  
10 level, one or the other, is it appropriate for us to  
11 be basing our zones now where we do have authority on  
12 what we recommended two years ago to the legislature,  
13 which hasn't yet acted?

14 A. Right. I don't know.

15 Q. Another question on -- I think it's Exhibit  
16 259. You were questioned, I think, about some wire  
17 centers are hooked up with an exchange that's not  
18 really reflective of the wire centers' average cost?

19 A. Density zones.

20 Q. Density zones, all right. I'm just  
21 wondering, of this list here, how many wire centers  
22 are, quote, out of place, close quote, relative to  
23 the zone they would otherwise be in?

24 A. And well, in the greater than 650, Duvall  
25 is in with Bothell, and Duvall is a small wire

02721

1 center. I think Sammamish is included in maybe  
2 Hall's Lake. Sammamish is about 500 lines per square  
3 mile, so that one would also be out of there. And I  
4 believe that there's a key somewhere in the work  
5 papers, anyway, that shows the aggregation of the  
6 wire centers to the exchanges. So they have  
7 somewhere around a dozen or 15 exchanges that group  
8 wire centers, and I just don't have right before me  
9 what all the mixing is that goes on.

10 Q. Okay. And does that dozen relate just to  
11 GTE or GTE and US West?

12 A. No, those are just GTE. They have  
13 relatively a lot of them, I think. US West has maybe  
14 a half a dozen. And those are primarily Seattle,  
15 Tacoma, and Spokane all aggregate eight or 10 or 12  
16 together.

17 Q. Okay. I think I'm trying to get at the  
18 issue of how much difference does it make to use  
19 exchange area versus wire center in your proposal?

20 A. It's a dollar or two, it's a dollar or two.

21 Q. Meaning it's a dollar or two for the  
22 average cost of a zone or --

23 A. Yes.

24 Q. Okay.

25 A. Yes.

02722

1 Q. I've got a note here to look at Exhibit  
2 273. I think you were being questioned about the  
3 smoothness and lack of discontinuities, and you  
4 explained that. But a follow-up question I was going  
5 to ask is if you put all three of these graphs that  
6 are on 273 on a common grid or scale, then wouldn't  
7 that show the distinctions you're trying to get at  
8 between zones?

9 A. Yes, if it was all on one graph, you'd see  
10 three lines that are identical in shape, but each  
11 line would be above the other, because -- and the  
12 difference between them is caused by the difference  
13 in the density zone. The shape of the line is  
14 determined by the distance, so the distance  
15 determines the shape, and how far up or down on the  
16 graph it is is determined by the density of the wire  
17 center.

18 Q. Then, last question is, just before lunch,  
19 we left off with, I think, an acknowledgement that we  
20 don't have anything like MapQuest automated in a  
21 system right now, and I think you suggested before  
22 and after lunch that the Commission could  
23 nevertheless order such a plan to be implemented over  
24 some period of time?

25 A. Right.

02723

1 Q. But in the meantime, where we left off at  
2 lunch, I think I heard you say we're not terribly  
3 concerned that we operate manually in the meantime,  
4 or did you mean that this system would not go into  
5 effect until we had taken the time and money to  
6 automate MapQuest or MapBlast or something into the  
7 system?

8 A. I think, back then, what I was talking  
9 about was I wouldn't worry about the manual, and  
10 that's simply based on the acknowledgement of  
11 information that's been put in the record here during  
12 the course about the number of loops to date that  
13 have been purchased under existing agreements, and  
14 they're a very, very small number.

15 It doesn't seem to me that there's going to  
16 be a sudden explosion of loops, especially since  
17 these distance-sensitive prices are not very far off  
18 from what they pay today for an unbundled loop under  
19 the agreements, it's 12 versus \$13, or somewhere in  
20 there, and in some cases, they're actually going to  
21 be more. So I don't see a sudden flurry of activity,  
22 where all of a sudden you've got hundreds and  
23 hundreds of customers that you need to identify  
24 distances with every day and no way to do it.

25 Q. But I guess wouldn't it be a sign of

02724

1 competitive success if, in general, we did start  
2 getting hundreds and hundreds of requests a day?

3 A. Well, yes.

4 Q. To the extent this is successful, wouldn't  
5 the necessity of looking up MapQuest manually push  
6 things back the other direction?

7 A. You couldn't hope to identify distances on  
8 any kind of a permanent basis without eventually  
9 getting a database in place that automates that  
10 process for these things to some degree. But you  
11 know, in the next three months, May, June, July, or  
12 end of the fall, I do think that we will eventually  
13 see, hopefully by the hundreds, some success in this,  
14 as CLECs have more assurances to what prices they're  
15 going to be paying on a permanent basis, which is the  
16 process that we're about today.

17 So they will eventually pick up, but I  
18 think you could do it either way. And I think a more  
19 aggressive way would be to implement it and use some  
20 kind of a process where the CLEC can provide the  
21 MapQuest, and here's the distance and here's the rate  
22 that that customer pays and, at least in the short  
23 term, the billing would take place on that basis and  
24 with the understanding that within so many months,  
25 this stuff would become automated.

02725

1           The other way that's also reasonable is to  
2 simply go ahead and implement one of the flat rate  
3 proposals with the understanding that it's a  
4 temporary situation and that, as of the first of the  
5 year, whatever, tariffs have to be filed to implement  
6 a distance-sensitive kind of proposal. And then set  
7 -- the parties would be set to task to resolve these  
8 issues.

9           Q. Well, then, speaking of flat rate systems,  
10 if we were to adopt zones based on wire centers only,  
11 do you have an opinion on the desirability of Mr.  
12 Denney's page 16, Column Three alternative, perhaps  
13 versus the GTE compromise, which collapses the first  
14 two rows of that column?

15          A. Yeah, I think the GTE/AT&T proposal would  
16 be -- is the better of the two, and that's because --

17          Q. You mean the one that collapses the first  
18 two rows, or Mr. Denney's?

19          A. Mr. Denney's proposal would be preferable  
20 to Staff.

21          Q. And why?

22          A. As we demonstrated yesterday, there's a lot  
23 of Zone One -- Zone Three, low-density, high-cost  
24 wire centers that are now in Zone One, in that  
25 proposal, due to the estimation method that Mr. Tucek

02726

1 used to develop wire center-specific costs for those  
2 wire centers. I don't think they came out very good.  
3 I don't think loops in Pullman are cheaper than loops  
4 in Everett Main. So there's just too much mixing of  
5 high-cost and low-cost wire centers there.

6 Q. Okay. Is there, in your opinion, a better  
7 wire center-based set of zones that has been  
8 discussed here in these hearings or that you could  
9 describe?

10 A. Well, I think it would be relatively easy  
11 to, for instance, in the Staff's proposal, Exhibit 9,  
12 to undo the exchange level calculations and simply  
13 move those wire centers back over where they belong  
14 and recalculate the rates. All of that information  
15 is in my work papers. And if you did it that way,  
16 you would have your wire centers all aligned with  
17 density zones.

18 And I realize there's been some  
19 disagreement about how you do that, but I think Staff  
20 is more comfortable using that external measure, if  
21 you will, to determine what density zones wire  
22 centers go into as opposed to the much larger degree  
23 of judgment that has to be used if you're simply  
24 going to go down the list and find a number and say,  
25 okay, everything from there on goes in this zone.

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1 Q. So what you're describing, wire center  
2 classified or ranked by density zone?

3 A. Yes.

4 Q. Okay. What about the number of zones in  
5 any of these three alternatives we've been talking --  
6 well, really only two. Mr. Denney's page 16 has  
7 four. Do you feel there's a -- either that one or  
8 the one you just described, is there a greater value  
9 to having five, six or seven?

10 A. Well, yeah, we considered at the outset why  
11 not have, if there's 111 wire centers, why not have  
12 111 rates. After all, you can't get more deaveraged  
13 than that.

14 Q. Well, you probably could, but not if you're  
15 going to keep it at the wire center level.

16 A. And the practicalities, I think, is that  
17 both CLECs and ILECs want administrative simplicity  
18 in their choices. They don't want to make -- you  
19 know, they want -- I think Mr. Denney was saying  
20 yesterday, he has 14 states that he has to keep track  
21 of what the prices are for all of the individual rate  
22 elements. And likewise, the ILECs have complained  
23 that there can be substantial cost in having to alter  
24 databases to carry out various proposals.

25 So I think where those arguments lead us is



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1 that unless there's some driving public interest kind  
2 of issues that Staff would feel the Commission should  
3 ignore what both of these guys are saying and do it  
4 this way, if they can reach a consensus, that's okay  
5 with us.

6           And so it seemed to us that they both liked  
7 -- thought three zones would do it. The trade-off  
8 there is very clear. The level of detail, they seem  
9 willing to live with that and work with it and, you  
10 know, we don't think that's a drop-dead kind of  
11 issue, whether you have three or four or five.  
12 That's a matter of your own comfort level.

13           It's clear that -- I don't know if it's  
14 clear, but it's probable that most of the activity's  
15 going to take place in one or two of those zones,  
16 even if you had seven or eight. There's only one or  
17 two zones that are going to be relevant for the  
18 CLECs.

19           CHAIRWOMAN SHOWALTER: Okay. That's all  
20 the questions I had.

21           MS. ANDERL: Your Honor, I have several  
22 follow-up questions, as well as an inquiry into what  
23 Mr. Spinks was going to check on over the lunch hour.  
24 I don't know -- I think it's customary that we kind  
25 of do the re-cross before we go back to the redirect.

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1 JUDGE WALLIS: Very well. Mr. Edwards.

2 MR. EDWARDS: Just one area.

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

4 BY MR. EDWARDS:

5 Q. In response to several questions from Dr.  
6 Gabel and also from Commissioner Gillis, and with  
7 respect to the charts that Dr. Gabel handed out, I  
8 think you testified as to some bias in the estimation  
9 coefficients that you agreed exist with respect to  
10 Hatfield 3.1, but then said you took some comfort in  
11 the fact that the disaggregated costs are then  
12 reconciled to the statewide average; is that correct?

13 A. Yes.

14 Q. During the reconciliation process, I don't  
15 want to over simplify it, but it's basically a ratio  
16 that's applied to determined how the costs are  
17 reconciled back to the statewide average; correct?

18 A. Yes.

19 Q. So to the extent that there is a bias in  
20 the disaggregated cost, that relative bias stays in  
21 the reconciled cost simply through the ratio process;  
22 correct?

23 A. Well, I think that the question of bias and  
24 coefficients doesn't go away when you scale the  
25 numbers up or down.

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1 Q. That's my question. The bias remains?

2 A. Okay.

3 Q. Is that correct?

4 A. Sure.

5 MR. EDWARDS: That's all I had.

6 JUDGE WALLIS: Ms. Anderl.

7 MS. ANDERL: Thank you.

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

9 BY MS. ANDERL:

10 Q. Mr. Spinks, before lunch I asked you  
11 whether the price in the density zone of 100 to 650  
12 lines, as shown on Exhibit 256, of \$18.95, was the  
13 correct price, or if the correct price was contained  
14 in Exhibit 261-R in that same density zone of \$24.72.  
15 Do you have an answer to that question now?

16 A. Yes, over the lunch time, I went back and  
17 looked at the work papers and found that I, in  
18 Exhibit 261-R, for US West, in the 100 to 650 density  
19 range for that -- under the Hatfield 3.1 estimate,  
20 that all -- not only the 24.72, but the three  
21 distance numbers under that were the numbers that  
22 came out of the distance-sensitive equation before  
23 adjustment, and it was -- I basically picked up the  
24 wrong column of numbers.

25 The column of numbers that I should have

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1 picked up was the one that said 18.95 instead of the  
2 24.72; and then it was 16.44 instead of the 21.44; it  
3 was 20.61 instead of the 20.88; and it should be  
4 23.66 instead of the 30.86. It was a clerical  
5 transposition kind of an error. I just picked up the  
6 wrong column when I made this exhibit out of the  
7 worksheet.

8 Q. You said you picked up the column of  
9 numbers before adjustment. What adjustment was made?

10 A. The scaling.

11 Q. What's that?

12 A. The reconciling the distance-sensitive  
13 estimates back to the zone average estimates.

14 Q. Well, I don't understand that, I guess.  
15 What happened to the \$24.72 for the zone average that  
16 reduced it to \$18.95?

17 A. The fact that the statewide average rate is  
18 18 -- was set at 18.16 and these values produced a  
19 larger statewide average rate than that. They're in  
20 the work papers. I mean, it's not something that's a  
21 mystery. They were filed with the --

22 MS. ANDERL: May I ask, Your Honor, if the  
23 work papers have been identified and admitted as an  
24 exhibit?

25 JUDGE WALLIS: I understand they have not.

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1 Is that true, Ms. Rendahl?

2 MS. RENDAHL: That's my understanding.

3 These are -- if I might clarify with the witness,  
4 these are the work papers that were submitted with  
5 your rebuttal testimony?

6 THE WITNESS: Yes, this had been sent to  
7 each of the parties.

8 MR. EDWARDS: Actually, I think they were  
9 work papers that were distributed last night. Was  
10 that GTE's?

11 THE WITNESS: That was just GTE's.

12 Q. Mr. Spinks, we talked about whether or not  
13 some wire centers that were less dense than their  
14 zone were included in the zone because they were  
15 included within the exchange. Do you recall that?

16 A. Yes.

17 Q. Is the converse also true? Are some wire  
18 centers that are more dense than their zone in that  
19 zone because they're in the larger exchange?  
20 Spokane, for example?

21 A. I'm not sure if I understood your question.

22 Q. Does Spokane, which is an exchange which is  
23 in the 100 to 650 lines per square mile zone, does it  
24 have wire centers in it that are more dense than 650  
25 lines per square mile?

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1 A. Yes, there are.

2 Q. Sorry. I had forgotten to ask the  
3 converse.

4 A. Okay.

5 Q. I think that you testified earlier, and you  
6 can correct me if I'm wrong, that you said that  
7 there's a lower cost produced in Zone One using wire  
8 centers only than with exchanges. You may have been  
9 comparing your analysis to Mr. Denney's. Do you  
10 recall giving that testimony?

11 A. I think that's right.

12 Q. Now, Mr. Denney's Zone One proposal for US  
13 West is \$14.26; isn't that right?

14 A. Yes.

15 Q. And your proposal is \$12.53, plus 57 cents;  
16 is that right?

17 A. Right.

18 Q. Okay. So in that case, you don't get a  
19 lower Zone One number; is that right?

20 A. Yes. If you rank -- if you use -- I'm  
21 using the same Hatfield numbers he is, and I think  
22 the difference is he didn't use density zones to rank  
23 the wire centers. He just used the cost break. And  
24 because of that, it's an apples and orange comparison  
25 to look at the two numbers and conclude that Mr.

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1 Denney's is more expensive than mine.

2 As a general matter, if you -- the use of  
3 exchanges dilutes the cost, because you're bringing  
4 lower-density wire zones into upper density, and  
5 those lower-density wire centers have a higher cost.  
6 So your average cost in the higher-density zone --  
7 I'm sorry, your cost in the higher-density zone is  
8 higher than it would be if you had left out the  
9 lower-density wire centers.

10 Q. But your cost in your Zone One is not  
11 higher than Mr. Denney's cost in his Zone One?

12 A. That's because they have different wire  
13 centers in them. It's apples and oranges to look at  
14 them.

15 Q. Do you know if there are any licensing  
16 issues associated with using MapQuest for commercial  
17 applications?

18 A. I would suspect there might be, but I don't  
19 know, as a matter of fact.

20 Q. If US West were, on an interim basis, to  
21 perform the loop length determination and the billing  
22 adjustment each month on a manual basis until there  
23 were automated systems in place -- could you assume  
24 that with me for a moment?

25 A. All right.

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1 Q. And can you assume that there are  
2 approximately 6,000 loops currently in service sold  
3 by US West to CLECs --

4 A. Yes.

5 Q. -- in Washington? And if I were to take on  
6 a monthly basis approximately 10 minutes each loop to  
7 do the lookup, would you agree that the mathematics  
8 of that is it would be 60,000 minutes?

9 A. Sure.

10 Q. And that's a thousand hours?

11 A. Well, the existing customer base that  
12 you're doing an initial lookup for? Yes, if you did  
13 it that way, that's what the mathematics would show.  
14 Another way to do it is each CLEC can identify for  
15 the company what the customer distances are and,  
16 using a MapQuest-type application, and the company  
17 can review those and if it sees any around 12  
18 kilofeet or around 24 kilofeet, where it wants to do  
19 a manual check on that, it can do that. I would  
20 suggest it would be a lot lower cost to initially  
21 establish than you're suggesting.

22 Q. All right. But if you made no changes  
23 whatsoever to US West's systems for purposes of  
24 incorporating this loop length data, isn't it true  
25 that the lookup and billing would have to be done



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1 each month?

2 A. I don't know.

3 Q. Okay.

4 A. I would expect that the parties -- if there  
5 were such a directive to do it, you would find a way  
6 to do that. And I don't know that it would  
7 necessarily involve that or not.

8 Q. Let me ask you one or two final questions  
9 here, and that is on Exhibit Number 401, which is  
10 Staff response to WUTC Bench Request Number One.

11 A. I have that.

12 Q. Okay. Did you indicate earlier that you're  
13 the author of that response?

14 A. I don't know what I am. I don't know if  
15 I'd indicated earlier if I am, but I am.

16 Q. You answered my question. Thank you. Are  
17 you, yes. Do you see the one, two, three, four --  
18 fourth paragraph down in the Staff response?

19 A. Yes.

20 Q. That indicates that, due to a number of  
21 errors in the HM 3.1 model data for the US West wire  
22 center areas for purposes of classifying wire centers  
23 to the correct density zone and the regressions, wire  
24 center area data for US West was obtained from the  
25 HAI 5.0a version of the model?

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1 A. Yes.

2 Q. Is that how you classified wire centers  
3 into the correct density zone for the proposal that's  
4 set forth in Exhibit 261-R, your final proposal for  
5 the -- under the column --

6 A. Yes.

7 Q. -- HM 3.1?

8 A. Yes.

9 Q. Did you find HM 3.1 Model data to be  
10 unsuitable for the purposes of classifying wire  
11 centers to the correct density zone?

12 A. I found a number of errors in the square  
13 miles that were -- that HM 3.1 said were the exchange  
14 areas that were the exchange areas for US West or  
15 wire center areas. I had also recalled from Phase I,  
16 I think it was, some concern being raised by US West  
17 about that. I could have sent a data request to the  
18 company to get the data, but it was available in 5.0,  
19 and when I compared the two, I noticed that a number  
20 -- a fair number of corrections had been made that  
21 led -- believed by me to be much more representative.

22 It was also my recollection that in 0311,  
23 US West no longer had the criticism of the Hatfield  
24 model with respect to errors in the exchange areas.  
25 And so I just picked those out as a matter of

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1 convenience.

2 MS. ANDERL: I think that's all my  
3 questions.

4 JUDGE WALLIS: Any other follow-up? Ms.  
5 Rendahl.

6 MS. RENDAHL: I just have a few, Your  
7 Honor.

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

9 BY MS. RENDAHL:

10 Q. Mr. Spinks, you've entertained a few  
11 questions on the distinction between separating into  
12 exchange level versus wire center level, and  
13 distinctions between the two and having high-cost and  
14 low-cost variations of wire centers within the  
15 exchange level.

16 Is it true that if you were to move certain  
17 wire centers from one zone to another, that you might  
18 have other distortions or what might be seemingly odd  
19 alignments in the corresponding census block or where  
20 certain streets or houses were located that -- do you  
21 understand what I'm asking you? That in the sense  
22 that there are variations within whatever category  
23 you're going to go look at, whether it's a census  
24 block group, a wire center, an exchange, or down to  
25 the street or house level?

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1 A. Yes, that's true.

2 Q. Okay. And so you're going to have some  
3 dense -- relatively dense or relatively sparse areas  
4 in whatever category you're looking at?

5 A. You will, because such exists within all of  
6 the wire centers. That's true.

7 Q. So how you categorize them is a choice  
8 based on factors that you may want to use or may not  
9 want to use?

10 A. That's correct.

11 MS. RENDAHL: I think that's all I have.

12 JUDGE WALLIS: Is there anything further of  
13 the witness? Let the record show that there is no  
14 response. Mr. Spinks, you're excused from the stand.  
15 Let's be off the record while the next witness steps  
16 forward. That would be Mr. Knowles; is that right,  
17 Mr. Kopta?

18 MR. KOPTA: That is correct.

19 (Recess taken.)

20 JUDGE WALLIS: Let's be back on the record,  
21 please, following our afternoon recess. And there is  
22 pending a request for official notice of a portion of  
23 a tariff, and weighing the discussion that has taken  
24 place on this and the nature of it, I think it's  
25 appropriate to allow official notice, and we will

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1 allow the parties to refer to this in the briefing.

2 MR. KOPTA: Thank you, Your Honor.

3 MS. ANDERL: Your Honor, two other

4 administrative matters, if we're going to do that for

5 just a moment. One is I'd like to move the admission

6 of Exhibit 401.

7 JUDGE WALLIS: Is there objection?

8 MS. ANDERL: Staff response to Bench

9 Request Number One.

10 JUDGE WALLIS: I hear no objection, and

11 Exhibit 401 is received.

12 MS. ANDERL: The other thing is --

13 CHAIRWOMAN SHOWALTER: Quick, while

14 everybody's gone.

15 MS. ANDERL: Yeah, a couple of others. No,

16 Your Honor, I think that when we were all here this

17 morning in our administrative discussion, you

18 indicated that the ruling on Exhibit 73-C would be to

19 admit that, as well, which is the corrected data

20 request response, and I don't believe that that

21 ruling has been made on the record yet.

22 JUDGE WALLIS: I believe it has not. You

23 are correct. The exhibit will be received.

24 MS. ANDERL: Thank you.

25 JUDGE WALLIS: And I will call the parties'

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1 attention to WAC 480-09-736(6)(c), which directs  
2 parties, as soon as a mistake is discovered, not  
3 after a corrected exhibit has been prepared, to alert  
4 other parties of that fact. And I have to say that I  
5 am quite concerned about the process here. I'm not  
6 in any way alleging that there was anything nefarious  
7 in US West's response to it. I know that when there  
8 are many complicated matters going on, it's easy to  
9 lose track of details, but these are sometimes very  
10 important details.

11 And it is essential in our process that the  
12 parties have the opportunity to prepare. And while  
13 it is necessary for us to make corrections from time  
14 to time, it's also necessary for us to make sure that  
15 other parties are aware that those corrections are  
16 being made so that we all can get to the hearing and  
17 avoid the disruption that a surprise causes and the  
18 time that it takes to work through it.

19 So with that, let's acknowledge that the  
20 CLECs are calling to the stand at this time witness  
21 Rex Knowles. In conjunction with Mr. Knowles'  
22 appearance today, a document has been filed with the  
23 Commission. I'm assigning that the Exhibit Number  
24 281-T for identification. That is the response  
25 testimony of Rex Knowles. Mr. Knowles, I'm going to

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1 ask you to stand and raise your right hand, please.  
2 Whereupon,

3 REX KNOWLES,  
4 having been first duly sworn, was called as a witness  
5 herein and was examined and testified as follows.

6 JUDGE WALLIS: Please be seated. Mr.  
7 Kopta.

8 MR. KOPTA: Thank you, Your Honor.

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

10 BY MR. KOPTA:

11 Q. Mr. Knowles, would you state your name and  
12 business address for the record, please?

13 A. My name is Rex Knowles, and my business  
14 address is 111 East Broadway, Suite 1000, Salt Lake  
15 City, Utah, 84111.

16 Q. And do you have before you what's been  
17 marked for identification as Exhibit 281-T?

18 A. I do.

19 Q. Was that exhibit prepared by you or under  
20 your direction or control?

21 A. It was.

22 Q. Do you have any corrections to make to the  
23 exhibit at this time?

24 A. Yes, I do. My title on page one, line two,  
25 has changed. I am now vice president regulatory.

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1 And based on what I understand happened in -- earlier  
2 in the week, there are some references in my  
3 testimony to numbers that were apparently developed  
4 using HAI 5.0, which should be modified to reflect  
5 the corresponding numbers in the resulting  
6 determinations using the HM 3.1, I believe.

7 Q. And with those corrections, if I were to  
8 ask you the questions that are contained in Exhibit  
9 281-T, would your answers be the same as those  
10 contained in that exhibit?

11 A. They would.

12 MR. KOPTA: Your Honor, at this time I  
13 would move the admission of Exhibit 281-T.

14 JUDGE WALLIS: You've indicated that there  
15 are some corrections to be made. Are you going to  
16 draw those out in further questions?

17 MR. KOPTA: I had not anticipated doing so.  
18 I realize that the issue of how to treat references  
19 to HAI 5.0a and any derivative references is yet to  
20 be determined. Mr. Knowles simply wanted to ensure  
21 that should the Commission decide to strike --  
22 physically strike portions of the testimony, that it  
23 would have a record basis for realizing that Mr.  
24 Knowles is still making the same testimony, just  
25 using different numbers than those using HAI 5.0a



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1 Model.

2 JUDGE WALLIS: Let's be off the record for  
3 just a moment.

4 (Discussion off the record.)

5 JUDGE WALLIS: Let's be back on the record,  
6 please. During a brief off-record discussion, we  
7 learned that the difficulty with numbers relates to  
8 the use of the HAI 5.0a cost model in earlier  
9 versions of one of the witnesses' testimony. And Mr.  
10 Kopta, on behalf of Mr. Knowles, has agreed to  
11 provide an errata sheet that corrects those numbers,  
12 even though they are descriptive, as opposed to  
13 substantive in nature. With that, we will receive  
14 Exhibit Number 281-T.

15 MR. KOPTA: Thank you, Your Honor.

16 Q. Mr. Knowles, for the benefit of the  
17 Chairwoman, who wasn't here earlier in the phases of  
18 this docket in which you testified, would you provide  
19 a brief summary of your background and  
20 responsibilities with Nextlink?

21 A. Certainly. I graduated from Portland State  
22 University back in 1989 as a business major, finance  
23 emphasis. I then started working in the  
24 telecommunications industry, United Telephone of the  
25 Northwest in Hood River, Oregon, where I had

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1 responsibilities for incremental costing, 911,  
2 extended area service and related subject matters.

3           In 1993, I moved to Las Vegas, where I  
4 worked as a regulatory manager for Sprint Central  
5 Telephone Nevada, and there I was responsible for  
6 incremental cost studies, as well as alternate  
7 regulation plans and deregulation type initiatives.

8           In 1996, I came over to Nextlink as a  
9 director of regulatory, and I've been responsible  
10 since that time for all regulatory, legislative  
11 interconnection and carrier relations issues for  
12 Nextlink, mostly in the US West states, and also in  
13 Nevada.

14           CHAIRWOMAN SHOWALTER: Thanks.

15           MR. KOPTA: Thank you, Mr. Knowles. He's  
16 available for cross-examination.

17           JUDGE WALLIS: Mr. Knowles, I'm going to  
18 ask you -- I note that you're relatively soft-spoken.  
19 Even though I'm quite close to you, I'm having  
20 difficulty hearing you. I'm going to ask you to pull  
21 that microphone much closer to your mouth. I think,  
22 that way, we'll all be better able to hear your  
23 responses. Thank you very much.

24           THE WITNESS: Sure.

25           JUDGE WALLIS: Much better, thank you.

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1 Questions from GTE.

2 MS. McCLELLAN: None from GTE.

3 JUDGE WALLIS: Ms. Anderl, US West.

4 MS. ANDERL: Thank you,

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

6 BY MS. ANDERL:

7 Q. Good afternoon, Mr. Knowles.

8 A. Good afternoon.

9 Q. I understand you have an airplane to catch.  
10 We'll try to make this brief.

11 MR. KENNEDY: Talk really slow.

12 Q. Turn to your exhibit on page five, please.  
13 Why do you believe that amortization over a  
14 three-year time period is conservative, referencing  
15 your testimony on lines two and three of page five?

16 A. The time frame that we're looking at to be  
17 able to recover the cost, the nonrecurring cost in  
18 particular of getting a customer to change over is  
19 one of those areas where you don't really know how  
20 long you're going to keep a customer, whether it will  
21 be one year, two year, three year, four year, five  
22 years. When we are doing our general business  
23 planning, we typically try to amortize those  
24 internally in a time frame shorter than three years.  
25 So from our business planning perspective, it's

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1 typically -- three years would be conservative.

2 Q. And if you had chosen a period of, say,  
3 five years, the resulting total on line 15 would have  
4 been a smaller amount; isn't that right?

5 A. Certainly, although whether you would  
6 actually recover it is the question.

7 Q. And as opposed to -- assuming that you  
8 could amortize those nonrecurring charges over a  
9 three-year recovery period, you could also have set  
10 up a model wherein you would recover those  
11 nonrecurring costs up front by charges to your end  
12 user customers; is that right?

13 A. Of course you could always do that. The  
14 question is whether the retail market will allow it.  
15 The problem there is that we are in competition with  
16 US West, and US West and GTE's nonrecurring charges  
17 don't anywhere approximate the numbers we'd be  
18 dealing with here. It would make it much more  
19 difficult to actually attract a customer to come over  
20 to the CLEC.

21 Q. Let me ask you about some of the numbers  
22 that you have in your column here. You have, on  
23 lines 10 and 11, cable unloading and bridged tap  
24 removal. Do you see that?

25 A. I do.

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1 Q. Would you accept, subject to your check,  
2 that the Commission order in this docket permits US  
3 West to recover one or the other of those charges,  
4 but not both on the same loop?

5 A. Subject to check.

6 Q. And on your line eight, installation with  
7 designated testing, do you see that?

8 A. Yes.

9 Q. Is that correct that that is the most  
10 expensive installation option that is available?

11 A. That's my understanding. That's what  
12 Nextlink typically purchases, because we want to make  
13 sure that when we get a loop, that it first of all  
14 meets the quality that it needs to have. Secondly,  
15 when we do a coordinated cut-overs, that the customer  
16 isn't put out of service, and that is the option that  
17 has both of those available.

18 Q. There are options available that are priced  
19 in the \$40 range, though, aren't there?

20 A. I would have to check.

21 Q. Would you accept that, subject to your  
22 check, that US West's compliance filing reflects a  
23 rate for installation at the lowest price of under  
24 \$45?

25 A. I would, but I would suggest that that does

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1 not include coordination, nor testing.

2 Q. Do you know, going back to the cable  
3 unloading and bridged tap removal, what percent of  
4 loops overall require this work?

5 A. I'm not.

6 Q. Do you know what percent of loops that  
7 Nextlink has purchased from US West have required  
8 that work?

9 A. I am not familiar with that number, either.

10 Q. In your calculation here, Mr. Knowles, is  
11 it your -- are you suggesting by this testimony that  
12 the \$18.16 loop price, on an average basis, is too  
13 high?

14 A. What I'm suggesting is that when the  
15 Commission is looking at the prices that CLECs pay  
16 for unbundled loops, that they need to take into  
17 consideration the practical ramifications of whatever  
18 price we're paying. That is there is a cap on how  
19 much revenue we can generate by offering the services  
20 to customers and the cost that we're paying for  
21 unbundled network elements, for instance, the loop  
22 and all the associated elements there, collocation,  
23 intertransport to get to those collocated areas all  
24 have to be looked at as a whole when you're trying to  
25 determine whether or not a competitor can affordably

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1 go in and offer service to a customer.

2 So with that in mind, the 18.16, when you  
3 put it together with everything else, is the relevant  
4 number on average that the Commission needs to look  
5 at to see whether or not a competitor can have  
6 potential entry into a market.

7 Q. Is that a yes or a no?

8 A. I believe it was a modified yes.

9 Q. And have you presented any evidence in this  
10 docket, Mr. Knowles, that your average revenues per  
11 customer do not exceed \$38.73?

12 A. I have provided no testimony one way or  
13 another about what our revenues are per customer.

14 Q. And the next page of your testimony, lines  
15 24 and 25, is what you're saying there, if I can  
16 restate this, and tell me if it's a fair paraphrase,  
17 that if the average recurring price of the loop is  
18 significantly above the actual cost, it creates a  
19 disincentive to competition?

20 A. Can you repeat that, please?

21 (Record read back.)

22 THE WITNESS: I'm not certain, even with  
23 having it read back, that I understand exactly what  
24 the question is. Are you --

25 Q. Well, let me see if I can explain it for

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1 you.

2 A. Okay.

3 Q. You've stated that unless the Commission  
4 adopts cost-based loop prices, some of which are less  
5 than the statewide average, effective competition  
6 would be unlikely to develop --

7 A. Correct.

8 Q. -- beyond the region of the CLEC's own  
9 networks?

10 A. Correct.

11 Q. So I'm asking you if what you're suggesting  
12 there is that if the average price is above the  
13 actual cost, it creates a disincentive to  
14 competition?

15 A. If you're saying if the average statewide  
16 cost is greater than the specific cost that a CLEC  
17 would incur or an ILEC would incur providing a loop  
18 in a less -- in a lower-cost area, would that be a  
19 disincentive to competition, then, yes, I would  
20 agree.

21 Q. Okay. And if the average price in a  
22 particular zone is above the average -- I'm sorry,  
23 let me try it again. If the price of a loop in a  
24 particular zone is significantly above the average  
25 cost in that zone, did that also create disincentive



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1 to competition within that particular zone?

2 A. It depends on what degree you're looking  
3 at. I mean, what we're trying to do here is provide  
4 a practical balance between the disaggregation of  
5 costs and the practicality of implementing those  
6 costs.

7 But you're always going to have some  
8 averaging going on, and you know, I refer to Mr.  
9 Montgomery with respect to, you know, what level is  
10 enough to get the right balance, but at some point,  
11 you're always going to have some above and some below  
12 a particular average cost. The question is what is  
13 the disparity between those, and is there a way to  
14 practically eliminate those for the majority of the  
15 areas where it's significantly larger than it need  
16 be.

17 MS. ANDERL: That's all my questions.

18 Thank you.

19 JUDGE WALLIS: Mr. Kennedy.

20 MR. KENNEDY: None.

21 JUDGE WALLIS: Ms. Proctor. Ms. Rendahl.

22 MS. RENDAHL: None.

23 JUDGE WALLIS: Dr. Gabel.

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

25 BY DR. GABEL:

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1 Q. Good afternoon, Mr. Knowles. I just have  
2 one or two brief questions. First, referring to page  
3 five of your Exhibit 281, line 10, cable unloading,  
4 that refers to removing load coils?

5 A. That's my understanding, yes.

6 Q. And are you familiar with the resistance  
7 design standard for loops?

8 A. I am personally not an engineer and don't  
9 know the standards myself.

10 Q. Okay. Item line seven, expanded  
11 interconnection channel termination?

12 A. Yes.

13 Q. That's a rate of \$2.12?

14 A. That is the rate we've included there, yes.

15 Q. That's for connecting an unbundled loop to  
16 your collocation page?

17 A. Yes, correct.

18 Q. And if you were to buy the port and the  
19 loop from US West or GTE, if you were to get the UNE  
20 platform, would you then avoid this cost, or even  
21 with the UNE platform, do you still need the expanded  
22 interconnection channel termination?

23 A. I have not tried to buy anything off of a  
24 UNE P type platform, so I don't know what costs would  
25 be included in US West's perspective, depending upon

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1 whether US West is doing the connections or whether  
2 the CLEC would do the connections.

3           It's very possible, in prior scenarios --  
4 I'm not sure what US West's position is on this right  
5 now, but in prior scenarios, they were requiring the  
6 use of a spot frame, which would have required two  
7 EICTs to make that appearance available on the SPOT  
8 frame. And therefore, it would have doubled this  
9 cost, not deleted it. I'm not certain what their  
10 proposal is or what, if any, resolution the  
11 Commission has made to that issue at this point.

12           DR. GABEL: Thank you. I have no further  
13 questions.

14           JUDGE WALLIS: The Commissioners.

15           COMMISSIONER HEMSTAD: No.

16           CHAIRWOMAN SHOWALTER: No.

17           COMMISSIONER GILLIS: No.

18           JUDGE WALLIS: Mr. Kopta.

19           MR. KOPTA: Just a couple of questions.

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

21 BY MR. KOPTA:

22           Q. Mr. Knowles, Ms. Anderl asked you a  
23 question about nonrecurring charge of somewhere in  
24 the neighborhood of \$40 for getting an unbundled  
25 loop. Do you recall that discussion?

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1 A. I do.

2 Q. And what does Nextlink get for that \$40?

3 A. It's my understanding that Nextlink gets an  
4 unbundled loop made available sometime within a -- I  
5 believe it's a 24-hour period, but I'd have to check  
6 that, that comes available for that customer. It is  
7 not tested. It's basically the loop as it is or as  
8 it has been. We don't know what its characteristics  
9 or quality is, and we don't have it coordinated at a  
10 particular point in time so we can keep the customer  
11 from having to go out of service.

12 Q. And how long would the customer potentially  
13 be out of service if Nextlink simply obtained a \$45  
14 nonrecurring charge?

15 A. My understanding is it could potentially be  
16 up to a day.

17 Q. And without testing, what's the result if  
18 Nextlink obtains a loop without any testing having  
19 been done on that loop?

20 A. Well, if you don't have your testing done,  
21 you don't know what your loop characteristics or  
22 quality is, and your probability for maintenance  
23 problems could be increased. We have found that it's  
24 been much more effective to get everything tested,  
25 know what the quality is when you're starting out,

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1 and doing that up front rather than waiting till you  
2 have problems and having a customer that's  
3 unsatisfied.

4 Q. You also had some discussion with Ms.  
5 Anderl about whether there are disincentives to  
6 competition if prices exceed or are lower than the  
7 statewide average. Do you recall that discussion?

8 A. Yes.

9 Q. From Nextlink's point of view, in terms of  
10 pricing of unbundled loops vis-a-vis the statewide  
11 average, what impact does it have on Nextlink to have  
12 the ability to obtain loops that are less than the  
13 statewide average and, contrarily, higher than the  
14 statewide average?

15 A. The impact that it has on Nextlink is it  
16 sends appropriate economic signals, in my opinion, on  
17 when to buy an unbundled loop, when to build our own  
18 facilities in trying to serve the same loop. There's  
19 another issue, as well.

20 The Commissioners, I gathered from the last  
21 set of discussions, is already familiar with the buy  
22 versus build issue, so I won't go on with that one.

23 But the other issue is if you're dealing  
24 with perhaps a zone-based or a distance-based loop,  
25 what might happen is you might have the opportunity

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1 to go into a central office that you might not have  
2 been able to go into before in the less-dense areas.  
3 If you've got the ability to go into a less-dense  
4 exchange and have some loops where you can actually  
5 make some money, it gets you in there. Once you're  
6 in there, you've incurred all the costs for  
7 collocation, for getting transport to that central  
8 office, then you're already there, the economics  
9 change for getting additional customers after the  
10 fact. So it might actually help provide the most  
11 opportunity for a competitive entry throughout more  
12 parts of the state.

13 MR. KOPTA: Thank you. That's all I have.

14 JUDGE WALLIS: Is there anything further of  
15 the witness? It appears that there's not. Mr.  
16 Knowles, thank you for appearing. You're excused  
17 from the stand.

18 Mr. Kopta, on behalf of his clients, is at  
19 this point calling William Page Montgomery to the  
20 stand. Mr. Montgomery, why don't we change our order  
21 here. I'll ask you to raise your right hand.  
22 Whereupon,

23 WILLIAM PAGE MONTGOMERY,  
24 having been first duly sworn, was called as a witness  
25 herein and was examined and testified as follows:

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1 JUDGE WALLIS: In conjunction with Mr.  
2 Montgomery's appearance, several documents have been  
3 pre-filed. I'm marking these for identification as  
4 follows:

5 The reply testimony of William Page  
6 Montgomery is marked as Exhibit 301-T for  
7 identification. The document designated Rates Table  
8 Exchanges Table is 302 for identification. Exhibit  
9 303-T is the rebuttal testimony of William Page  
10 Montgomery. 304 is Revised Exhibit Rates and  
11 Exchanges Table, and 305 is examples of off the shelf  
12 distance calculations. Mr. Kopta.

13 MR. KOPTA: Thank you, Your Honor.

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

15 BY MR. KOPTA:

16 Q. Mr. Montgomery, would you state your name  
17 and business address for the record, please?

18 A. My name is William Page Montgomery, and my  
19 business address is 1564 Skyline Drive, Laguna Beach,  
20 California.

21 Q. Mr. Montgomery, do you have before you the  
22 testimony and exhibits that are marked for  
23 identification as Exhibit Numbers 301-T through 305?

24 A. I do.

25 Q. Were those testimony and exhibits prepared

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1 by you or under your direction and control?

2 A. Yes.

3 Q. Other than references to the Hatfield Model  
4 5.0a, are there any changes or corrections that you  
5 need to make to the testimony or exhibits?

6 A. There's one broad type of correction in the  
7 reply testimony because of the word processing  
8 issues. Wherever I had a dash, it either appears as  
9 an asterisk or as a unique character that I've never  
10 seen before, which is a Y with two little dots over  
11 it. And so without going through and making all  
12 those changes, every time you see a Y with two little  
13 dots over it, it means a dash.

14 MS. ANDERL: That takes care of most of my  
15 cross.

16 THE WITNESS: Also, I'd point out that  
17 Exhibit 302 is actually superseded by Exhibit 304,  
18 and is probably redundant for that reason.

19 Q. And Mr. Montgomery, are you willing to  
20 provide an errata sheet similar to the errata that we  
21 had discussed in connection with Mr. Knowles'  
22 testimony, making the corrections needed to eliminate  
23 references to HAI 5.0a?

24 A. Yes.

25 MR. KOPTA: At this time, I would move for



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1 the admission of Exhibits 301-T through 305.

2 JUDGE WALLIS: Is there objection? Let the  
3 record show that there's no objection, and those  
4 documents are received in evidence.

5 MR. KOPTA: Mr. Montgomery is available for  
6 cross-examination.

7 JUDGE WALLIS: Ms. McClellan.

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

9 BY MS. McCLELLAN:

10 Q. Good afternoon. Is it Dr. Montgomery, I'm  
11 sorry?

12 A. Mr. Montgomery.

13 Q. Mr. Kopta elevated one of our witnesses to  
14 doctor; I thought I'd return the favor.

15 A. Not the first time that's happened.  
16 Honorary Ph.D.s.

17 DR. GABEL: You have to make a donation.

18 JUDGE WALLIS: Ms. McClellan, could you  
19 move that microphone a little bit closer to you -- a  
20 lot closer to you, please.

21 MS. McCLELLAN: Is this better?

22 JUDGE WALLIS: Yes, it is. Thank you very  
23 much.

24 Q. Mr. Montgomery, you spend a significant  
25 amount of your professional experience dealing with

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1 analyzing costs of operating a local telephone  
2 network; correct?

3 A. Yes, I'd say so

4 Q. And you know the difference between feeder  
5 and distribution plant?

6 A. Yes.

7 Q. And the distribution plant is the part of  
8 the network that is the closest to the customer; is  
9 that right?

10 A. Well, technically the customer's drop is  
11 the part that's closest to the customer, but  
12 distribution is closer than the feeder component,  
13 yes.

14 Q. Okay. And in general, the feeder plant is  
15 the portion of the network that actually enters the  
16 central office?

17 A. Yes.

18 Q. So the distribution plant is connected to  
19 the feeder and the feeder is connected to the switch?

20 A. Yes.

21 Q. And the feeder cables would be larger in  
22 size, but fewer in number than the distribution  
23 cables?

24 A. Generally speaking, that's true.

25 Q. Okay. And is it true that distribution and

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1 feeder plant have to be laid out in order to serve  
2 all customers in a wire center in an efficient  
3 manner?

4 A. It's true that they are theoretically laid  
5 out to serve all the customers in a wire center in an  
6 efficient manner, subject to a number of caveats over  
7 time. First of all, typical practice in the  
8 telephone industry is to relieve feeder, by which I  
9 mean it's easier to go out and upgrade the feeder  
10 plant, particularly with fiber-optics, so there's  
11 more opportunity, more activity to increase the  
12 capacity of the feeder plant.

13 In addition, of course, in any area that's  
14 not completely built out already, a totally mature  
15 neighborhood served by a wire center, there will be  
16 additions of distribution plant.

17 Q. But in general, you do not design plant to  
18 serve only one customer?

19 A. That's true.

20 Q. Would it be possible that the distribution  
21 plant from a particular customer location might  
22 follow a path away from the switch in order to  
23 connect with the feeder route?

24 A. It might well do that. That's part of the  
25 problem that has bedeviled, if you will, the

02763

1 development of these engineering cost models, is that  
2 there are a lot of different assumptions that one  
3 could make about how that routing takes place.

4 Q. And wouldn't it necessarily be true that  
5 the feeder routes that follow the paths of the  
6 shortest -- I'm sorry, let me start over. It would  
7 not necessarily be true that the feeder route would  
8 follow the path of the shortest driving distance,  
9 would it?

10 A. It doesn't necessarily follow the path, but  
11 I think in studies that I've heard about and talked  
12 to people about, driving distance is a reasonably  
13 good surrogate. And particularly, I'll tell you that  
14 I've talked to Dr. Richard Emerson, who's developing  
15 your loop cost model for GTE, about the effects of  
16 driving distance and whether that's a better or worse  
17 way of looking at loop lengths for engineering  
18 purposes.

19 Q. But it might be the case that the feeder  
20 route does not correspond to any part of the path  
21 over driving distance?

22 A. That's quite true. I don't think that's --  
23 what you're suggesting here I don't think has any  
24 relevance whatsoever to the issues before the  
25 Commission.

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1 Q. Well, we can quibble over that, but we  
2 won't. It's late.

3 A. Not that late.

4 Q. Do you know whether a program such as  
5 MapQuest could map every customer location within the  
6 state of Washington?

7 A. I don't know, and given what I've heard the  
8 last day and a half about MapQuest, I think it's  
9 appropriate to suggest several things. One, if you  
10 read my testimony on page 12, I was saying there are  
11 ways that this can be done simply to get to where we  
12 want to go in terms of distance rates. I said that  
13 industries should work together to work this out and  
14 the Commission should oversee that.

15 And MapQuest is but an example. There are  
16 a number of different databases that do this and  
17 there are a number of ways to do it. What I object  
18 to is the idea that somehow I'm recommending MapQuest  
19 or one of its variations as the system to implement  
20 this distance-based pricing of loops. It's clearly  
21 not what I said in my testimony. And like a lot of  
22 other things I've heard, this is -- these are just  
23 make weight arguments that delay more efficient  
24 pricing of local loops on the parts of the  
25 incumbents, as far as I'm concerned.

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1 MS. McCLELLAN: With that clarification, I  
2 don't have any further questions.

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

4 BY MS. ANDERL:

5 Q. Good afternoon, Mr. Montgomery.

6 A. Good afternoon. Do you know what that  
7 little symbol means?

8 Q. I think it's part of the name of an ice  
9 cream. Is it correct, Mr. Montgomery, that the break  
10 point between your Zone A and your Zone B in your  
11 rate proposals, the break point is a density zone of  
12 greater than or less than 100 lines per square mile?

13 A. Yes, that's correct.

14 Q. And you obtained those density -- that  
15 density information from Staff's testimony; is that  
16 right?

17 A. Yes, I took Mr. Spinks' original set of  
18 work papers and really, what I was trying to do was  
19 not do my own analysis at all, but simply roll up the  
20 information that he had provided in a format that  
21 involved fewer zones than the original Staff  
22 proposal, fewer different rate elements, and that's  
23 really what I was doing with that. And in doing the  
24 roll up and looking at the data, it struck me that  
25 100 access lines per square mile seemed like a

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1 reasonable break point.

2 Q. Why was that?

3 A. Excuse me?

4 Q. Why?

5 A. Just looking at all the data points and  
6 where the exchanges were located. And the fact is,  
7 what I was trying to do was, because I wanted to  
8 emphasize the distance elements that we've been  
9 talking about, I wanted to simplify the rest of the  
10 rate structure as much as possible. So I only  
11 developed two density -- strictly density zones. So  
12 that's why I found that break point.

13 Q. And you broke them out on an exchange, not  
14 a wire center basis?

15 A. I followed Mr. Spinks' data set, yes.

16 Q. Okay. Did you hear Mr. Spinks testify  
17 earlier this afternoon that the assignment of wire  
18 centers and exchanges to density zones for US West  
19 was based, in all cases, on data obtained from HAI  
20 5.0a?

21 A. Yes, I think I heard him say that. In the  
22 original testimony, yes, that's true.

23 Q. All right. And do you have any reason to  
24 doubt that that's, in fact, the information that you  
25 used in your final recommendation?

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1           A.    Now, by my final recommendation, what do  
2 you mean?

3           Q.    Exhibit 304.

4           A.    Final recommendation actually went back  
5 into Mr. Spinks' work papers that were based on  
6 Version 3.1, and I did a little bit more than I had  
7 done the first time around in the sense that I  
8 re-specified the equation for every wire center group  
9 that he had.  In other words, I redid the data.  So  
10 my revised rates in the Exhibit 304 are based on 3.1  
11 data.

12                    But I'd say that, having gone through this  
13 exercise, and this is the first time I think many of  
14 us have thought about loop deaveraging issues in this  
15 intense way, I've sort of come to the point of view  
16 during the hearings here and elsewhere that doing it  
17 on a wire center basis, as opposed to an exchange  
18 basis, has a lot to recommend it.  And I really  
19 hadn't focused on that issue when I first prepared  
20 the testimony.

21           Q.    Okay.  I want to go back to the bench  
22 request that Staff responded to, and that is Exhibit  
23 401.  I can provide you with a copy of it if you need  
24 to.

25           A.    I haven't seen Exhibit 401.  When you put



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1 it in a while ago, I'd never seen it, so I'll take a  
2 look at it.

3 MS. ANDERL: Sorry, Your Honor. May I  
4 approach the witness?

5 JUDGE WALLIS: Yes.

6 THE WITNESS: May I have a moment to read  
7 this?

8 JUDGE WALLIS: Yes.

9 THE WITNESS: Thank you.

10 Q. I'm sorry, Mr. Montgomery, the question, as  
11 well as the answer, might be helpful to you.

12 A. Okay. I've read through this once.

13 Q. Okay. In the fourth paragraph, I think it  
14 is, in the answer, do you see the description of how  
15 the original classification into density zones was  
16 done using data from HAI 5.0a?

17 A. Yes, is this the one that has all the  
18 little arrows and exclamation marks next to it?  
19 Yes, it says --

20 Q. That's very illustrative for the record.  
21 Thank you, Mr. Montgomery.

22 A. It simply gives the number of errors in HM  
23 3.1. The wire center area data was obtained from HAI  
24 5.0a.

25 Q. And after -- upon reading that, do you have

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1 any independent knowledge of whether the density  
2 zones that you used were obtained from HM 3.1 or HAI  
3 5.0a?

4 A. Maybe I need to look at the question again,  
5 because I'm confused. I don't know whether the  
6 question actually refers to what Mr. Spinks and the  
7 Staff did originally or what they did in what was  
8 filed in the rebuttal testimony.

9 Q. Okay. I think the question, Mr.  
10 Montgomery, was a request for an explanation of how  
11 density was calculated. Then, while Mr. Spinks was  
12 on the stand -- and I hope this is an accurate  
13 reflection of the record. I think it is. Mr. Spinks  
14 indicated that even his most recent recommendation  
15 includes the assignment of density zones via  
16 information from HAI 5.0a.

17 A. I must have been out of the room when he  
18 said that, because I was unaware of that.

19 Q. I see. That's kind of what I was asking  
20 you about. I was surprised that we were not  
21 communicating.

22 A. Well, I must have been out of the room.  
23 That's the first I've heard of it, and that wasn't  
24 what I understood before.

25 Q. Mr. Montgomery, take a look at your Exhibit

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1 303-T, which is your rebuttal, or last round of  
2 testimony?

3 A. Mm-hmm.

4 Q. On page 10, lines 13 through 15.

5 A. Mm-hmm.

6 Q. That's part of a larger sentence, but you  
7 state, starting on line 11, Once the cost of a  
8 wholesale component, a UNE, that makes up part of a  
9 retail service is deaveraged so as to better reflect  
10 the cost effects of line density and distance, the  
11 same economic cost can be reflected in an ILEC's  
12 pricing and service packages that are meant to  
13 respond to the competitive pricing of the CLECs.

14 Is it correct that what you're saying here  
15 is that the UNE prices become the price floor for the  
16 ILEC's retail services?

17 A. Essentially, that's what I'm saying.  
18 That's how I said it in the original testimony on  
19 January 18th. I used the term price floor.

20 Q. Okay. Looking on footnote five in that  
21 same page, you state, Rather than utilize the retail  
22 pricing flexibility that could accompany deaveraging  
23 of the loop UNE -- and then you go on. Are you  
24 saying in that statement that the ILECs should  
25 deaverage their retail prices in order to forestall

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1 competitive losses?

2 A. No, I'm saying just the opposite, I think.  
3 What I'm saying is that if the telephone companies  
4 were in a completely steady state financial position,  
5 in which if their revenues changed at all, they would  
6 have to come and raise prices someplace, then you  
7 would have an immediate concern with rate rebalancing  
8 and the effects of universal service. But that's far  
9 from the case.

10 All of the telephone companies today, the  
11 ILECs in the United States are doing very well  
12 financially. Their market values and the mergers and  
13 things that are going on are set well above their  
14 book costs. For those of us who aren't as familiar  
15 with the telecommunications industry, US West and the  
16 other ILECs, when they were spun off from AT&T --

17 MS. ANDERL: Your Honor, I'm going to  
18 object at this point. The response is far beyond the  
19 scope of the question.

20 THE WITNESS: No, I don't think so. I'm  
21 trying to explain --

22 JUDGE WALLIS: Mr. Montgomery, let's let  
23 Mr. Kopta argue this.

24 MR. KOPTA: Notwithstanding that Mr.  
25 Montgomery has some legal training, Ms. Anderl asked

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1 Mr. Montgomery an open-ended question about what he  
2 meant in this footnote. I believe that he is  
3 responding to that open-ended question.

4 MS. ANDERL: I think I asked him a yes or  
5 no question, which is are you saying here that the  
6 ILECs should deaverage their retail prices in order  
7 to forestall competitive losses. I think he can say  
8 either yes or no and give a brief explanation, but I  
9 think we were well beyond the latter.

10 MR. KOPTA: I disagree, and have noticed  
11 that US West's witnesses are not as terribly concise  
12 when it comes to explaining their answers, and I  
13 would ask that Mr. Montgomery be allowed the liberty  
14 of explaining his answer, which I believe started off  
15 with, I believe my statement was exactly the  
16 opposite.

17 JUDGE WALLIS: Well, I think that's the  
18 kind of brief explanation that the question calls  
19 for, and I think that the witness did go beyond the  
20 penumbra of the scope of what the question called  
21 for, and will sustain the objection.

22 MS. ANDERL: Thank you.

23 Q. And rushing in where angels fear to tread,  
24 I'm going to ask another question about that  
25 footnote. What do you mean by retail pricing

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1 flexibility?

2 A. The ability to use those price floors that  
3 we were talking about, as opposed to a broad-based  
4 comprehensive full-fledged deaveraging or  
5 rebalancing, shall we say, of the existing rates.

6 Q. Okay. So when you say retail pricing  
7 flexibility, are you suggesting there that ILECs  
8 ought to be permitted to selectively lower retail  
9 prices in order to respond to competition?

10 A. If the UNE prices have been set correctly  
11 and reflect legitimate cost factors. Under the  
12 current circumstances, there would be no opportunity  
13 for ILEC retail pricing flexibility because of the  
14 average prices that are in existence.

15 Q. In your -- moving on to a different topic,  
16 let me just ask you, Mr. Montgomery, do you have a  
17 general understanding of the systems -- the term  
18 systems when they're used to refer to US West's  
19 systems such as the pre-ordering, ordering,  
20 provisioning, repair and maintenance and billing  
21 systems?

22 A. Yes, I do. I've actually testified about  
23 the OSS cost recovery by US West, so I'm fairly  
24 familiar with what US West has.

25 Q. Do you have any formal education designing

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1 and developing systems, as we've just used that word?

2 A. No.

3 Q. Have you ever designed or developed large  
4 systems such as those that we've just referenced?

5 A. No.

6 Q. Mr. Montgomery, in the hypothetical that  
7 you gave, where you selected two addresses and used  
8 MapQuest to determine a distance calculation, do you  
9 recall that?

10 A. Yes, I think there were three examples.

11 Q. Three, sorry. Three addresses, two  
12 examples. Well --

13 A. One address is Mr. Kopta's office, the  
14 virtual central office that I made it into.

15 Q. I think you called it a faux central  
16 office?

17 A. I think I did.

18 MR. KOPTA: We've been called worse.

19 Q. Because you did not use the actual address  
20 of an actual US West central office, isn't it correct  
21 that there would not be any way to determine an  
22 actual loop length between these two points?

23 A. Well, for the purposes of the example, I  
24 didn't use a US West central office address. I  
25 probably would have gotten an objection if I had.

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1 It's probably proprietary.

2 Q. You would.

3 A. But the point is that the telephone  
4 industry could take a database like this and adapt it  
5 and load it with the addresses that the various  
6 participants in the industry wanted it loaded with,  
7 and then could query that. I mean, it is a systems  
8 question, but it's a system that you can get for free  
9 over the Internet today. I can't imagine that it  
10 would be that difficult to put it on a PC platform,  
11 you know, in US West's headquarters in someplace and  
12 run the database. It's a very simple,  
13 straightforward thing, and it doesn't have to be done  
14 every month, like Mr. Spinks said. He's incorrect  
15 about that.

16 Q. Mr. Montgomery, I think you misunderstand  
17 my question, and perhaps it's because you were not in  
18 the room a couple of days ago, but there was a  
19 question about whether or not US West had undertaken  
20 to or been able to verify whether these MapQuest  
21 results, how they matched up to an actual loop  
22 length. And I'm simply trying to confirm with you  
23 whether or not US West has any sort of an actual loop  
24 length emanating from 701 Fifth Avenue to any other  
25 address, given that 701 Fifth Avenue is Mr. Kopta's



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1 office and not a US West central office?

2 A. You're reading way too much into this  
3 example. I was trying to show -- let's go through  
4 the logic of this.

5 JUDGE WALLIS: Mr. Montgomery, I'm not sure  
6 that that's responsive to the question.

7 MS. ANDERL: Thank you, Your Honor. I was  
8 just about to say the same thing.

9 THE WITNESS: Well, I was not proposing  
10 these exhibits as the system to be implemented by US  
11 West and the CLECs. I was proposing it to show that  
12 there are already off-the-shelf systems that are free  
13 that can be used and can be adopted. And the logical  
14 inference that I've drawn here -- maybe I didn't say  
15 it in the testimony -- is if there's a database that  
16 I can use for free, there probably is a database that  
17 I can develop for a small cost that will be totally  
18 accurate.

19 JUDGE WALLIS: Mr. Montgomery, I think  
20 you're starting to repeat things that you've said  
21 before, and again, I don't think that was responsive  
22 to the question that was asked of you.

23 Q. Let me just kind of back up. Is it  
24 correct, Mr. Montgomery, that all of US West's loops  
25 emanate from a central office?

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1 A. Of course it's correct, yes.

2 Q. And the 701 Fifth Avenue address that you  
3 selected as a faux central office is not an actual  
4 address for US West central office, is it?

5 A. No, but US West central offices do have  
6 street addresses.

7 Q. Correct.

8 A. Thank you.

9 MS. ANDERL: And I think that's all I  
10 really wanted. Way more than I wanted. I got way  
11 more than I wanted. It was at my peril, I guess.  
12 That was all I had for this witness.

13 JUDGE WALLIS: Mr. Kennedy.

14 MR. KENNEDY: Nothing, thank you.

15 JUDGE WALLIS: Commission Staff.

16 MS. RENDAHL: Nothing.

17 JUDGE WALLIS: Dr. Gabel.

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

19 BY DR. GABEL:

20 Q. I have two areas of questions for you. Mr.  
21 Montgomery, first --

22 A. Hopefully not about MapQuest.

23 Q. Actually, it's along those lines.

24 A. Oh, dear.

25 Q. First, are you aware of situations in which

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1 US West and CLECs agree on approach to estimating  
2 line distances?

3 A. I'm not -- I think your question's too  
4 general for me to answer.

5 Q. Are you aware of a website called DSL  
6 Reports? Have you ever --

7 A. Oh, I see what you're saying. I'm aware of  
8 that whole process. And I'm not sure what US West  
9 does, but I know what some other phone companies do.

10 Q. Could you explain that, please?

11 A. Well, DSL is distance-constrained, to some  
12 extent, at least at this point in time. So there are  
13 devices in place where one can say, if I'm at XYZ  
14 address in this town, could I go to the phone  
15 company, or to a DLEC, a data CLEC, and get a DSL  
16 service. And what it tells you is basically whether  
17 you're within the 12-kilofoot range that it requires  
18 or not. And that's a pretty simple thing.

19 In fact, I was in -- I was in a Comp USA  
20 store not long ago, and Pacific Bell in California  
21 actually had a thing set up, a terminal set up at  
22 Comp USA where you could put in your street address  
23 and they would tell you whether you qualified for DSL  
24 or not.

25 Q. Thank you. The other area I'd like to ask

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1 you about is some testimony that GTE witness Dye  
2 filed. Did you read his responsive direct testimony?

3 A. Yes, I did.

4 Q. All right. This is Exhibit 143. At page  
5 14 and 15, he has a passage -- I'll just ask you  
6 perhaps to read into the record the paragraph that  
7 begins at the bottom of the page, and then just ask  
8 you to comment on his concern?

9 A. Should I read the whole paragraph or just  
10 maybe the first sentence?

11 Q. The paragraph.

12 A. Okay. It says, If the density  
13 characteristics are relatively homogeneous within a  
14 wire center's serving territory, then pricing based  
15 on loop length just results in another mechanism to  
16 facilitate rate arbitrage. What sense does it make  
17 for a CLEC to build its switch on the other side of  
18 town, self-provision its short loops, and pay short  
19 loop prices to the ILEC for loops that would be long  
20 loops to the CLEC. If density characteristics are  
21 relatively homogeneous, then what is of real concern  
22 is the setting of competitively-efficient and neutral  
23 rates -- in the setting of competitively-efficient  
24 and neutral rates is the average cost in that  
25 homogeneous area. The arbitrary placement of the

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1 wire center should not make one customer more coveted  
2 than another identical customer in that homogeneous  
3 area.

4 Q. I'm interested in hearing your response,  
5 Mr. Montgomery, is just what kind of investment  
6 incentives are created by having a loop rate that is  
7 distance-sensitive? Is this actually going to  
8 discourage investment, is it going to encourage  
9 perhaps inefficient investments?

10 A. Well, I'm not sure. First of all, I don't  
11 believe that you'd call the placement of wire centers  
12 today and telephone networks arbitrary. That's the  
13 whole point of having a scorched node network.  
14 Presumably, the wire centers have been placed in a  
15 rational way, so that they're in a good relationship  
16 to the population that they're serving, placed by the  
17 ILECs. But the idea that there are incentives or  
18 disincentives, depending on how something is priced,  
19 is really incorrect. What you're really trying to do  
20 is to improve efficient competition. If there's a  
21 customer who can be served with less expense because  
22 that customer is closer to the wire center and  
23 deaveraging incents you or incents the CLEC to try to  
24 serve that customer, that's efficient. If there's a  
25 customer that's a long way off from the wire center

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1 and deaveraging makes it more expensive for the CLEC  
2 to serve that customer and the CLEC decides not to,  
3 that's also efficient. And that tells you something  
4 -- that tells you more about the cost characteristics  
5 of the market than the average numbers do.

6           So deaveraging may affect incentives, may  
7 create these so-called disincentives out here in the  
8 distance band, but if it's an efficient response to  
9 the pricing, then it should be permitted.

10         Q.    If I understood your response, Mr.  
11 Montgomery, you said it's efficient for the CLEC to  
12 target the customer who's close to the wire center.  
13 Now, would you agree that the customer far away from  
14 the wire center's still going to receive service?

15         A.    Yes.

16         Q.    All right. So how is there an improvement  
17 in society's efficiency if we still have the same  
18 customers being served; it's just now we provided an  
19 incentive for the CLEC just to target a limited part  
20 of the market, but we still expect the entire market  
21 to be served?

22         A.    I think Mr. Knowles' answer to that was  
23 actually the best one I've heard ever, and that is it  
24 doesn't happen. It's not a cutoff kind of thing. If  
25 you give Nextlink or another CLEC the economic

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1 rationale to incur all the fixed costs that they  
2 incur, like collocation, by saying you'll save a  
3 little money on the unbundled loop element, but it  
4 will still be cost-based, then they're in there,  
5 they've committed this capacity, they have the sum  
6 cost in the form of collocation equipment, and  
7 suddenly, the rational economic thing for them to do  
8 is to say we'll start serving people further and  
9 further out, more expensive, more costly loop UNEs,  
10 because we can affect discount with sum costs for the  
11 collocation equipment and all the other things we did  
12 to get to the central office in the first place.

13           So all of a sudden, this kind of pricing --  
14 and this is a very interesting observation on Mr.  
15 Knowles' part. He's gone. That's good. I don't  
16 want it to go to his head -- is you can make it more  
17 economically attractive to serve a customer that  
18 nominally is less economically attractive to serve by  
19 deaveraging their rates by giving you a reason to put  
20 the stuff in the central office, giving you a revenue  
21 stream to cover the collocation cost, and then giving  
22 you the incentive to go out and market to more people  
23 further out from the central office. I think that's  
24 a very valid observation, and I found it very  
25 interesting when I heard it. But I didn't think of

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1 it, unfortunately.

2 DR. GABEL: Thank you.

3 JUDGE WALLIS: Other questions from the  
4 bench?

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

6 BY CHAIRWOMAN SHOWALTER:

7 Q. You mentioned you have degrees from Butler  
8 and Duke. What degrees do you have and when did you  
9 get them?

10 A. Bachelor of economics degree and a law  
11 degree from Duke University. I received one in 1974  
12 and one in 1971, in that order. And I've been,  
13 basically, since mid 1974 till today, I've been  
14 involved in telecommunications policy and regulatory  
15 issues. I didn't attach a statement of  
16 qualifications to this testimony because, as I said,  
17 this is the eighth and ninth testimonies that I've  
18 provided in this particular docket, and I just didn't  
19 think I needed to.

20 Q. If you look at Exhibit 304, am I right that  
21 your latest or last recommendation is the bottom half  
22 of the page?

23 A. Yes, although as you've heard this week,  
24 there are a number of things that would have to be --  
25 these actual numbers are affected by a number of



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1 things that have developed since I filed this  
2 testimony on February 7th. So the numbers are no  
3 longer, I would say, sufficiently accurate to be  
4 used.

5 Q. But this is zones of exchanges; is that  
6 correct?

7 A. Yes.

8 Q. And I thought I heard you say that, after  
9 listening to the testimony here, that you thought  
10 that zones based on wire centers might be preferable?

11 A. I think I'm persuaded of that, having read  
12 the testimony of the other parties, the three rounds,  
13 and listened today and yesterday, that the advantages  
14 of an exchange-based formulation are not nearly as  
15 great as I might have thought at one point.

16 Q. And so if you imagine a new pair of boxes  
17 that looked like this, but were wire centers, rather  
18 than exchanges, would your proposed rows be the same?  
19 That is, the distance of zero to 3,000, 3,000 to  
20 6,000, et cetera?

21 A. Yes, I think you've heard this week that  
22 12,000 kilofeet is a significant point from a cost  
23 standpoint. What I was trying to do is break down  
24 everything below 12,000 feet that is presumably  
25 relatively uniform. What would change more -- the

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1 numbers would obviously change.

2 Q. Right. I'm just talking conceptually,  
3 since we don't have it in front of us.

4 A. Yeah, and what would change, also, is on  
5 the second page of the exhibit, the names of -- I  
6 guess there would be about 15 -- potentially 15  
7 exchange names for GTE, and seven or eight for US  
8 West that would flip back and forth between these  
9 columns, and you might have to designate the names  
10 differently. It would be --

11 Q. Well, wouldn't we have a list of wire  
12 centers, not exchanges, in this new imaginary model?

13 A. You'd say Everett East, or Everett Main  
14 versus Everett North. I would -- because CLLI codes  
15 are hard for people to understand, I'd still probably  
16 write the exhibit in plain English.

17 Q. Well, if you imagined that pair of boxes is  
18 based on wire centers and not exchanges, and now  
19 compare it to Exhibit 4, page 16, which is Mr.  
20 Denney's table. Are you familiar with that table?

21 A. Yes, I am.

22 Q. And are you familiar with Column Three of  
23 that table?

24 A. I am.

25 Q. What do you see as the advantages -- or

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1 would you compare the advantages or disadvantages of  
2 Mr. Denney's Column Three to this virtual pair that  
3 we're imagining, which is wire centers grouped by  
4 distance?

5 A. Well, I'd have to say that Mr. Denney's  
6 Column Three, or a variation thereon with some zone  
7 would be easier to implement and administer. I don't  
8 think that the implementation and administration  
9 costs are as complicated as were depicted by the  
10 ILECs, but there is some effect there, there's no  
11 question, for the distance component.

12 Q. So Mr. Denney's would be somewhat easier  
13 and, I presume, somewhat easier to administer, maybe  
14 more timely or less costly to administer in the short  
15 run?

16 A. In the short run, it would be less costly  
17 to administer. Although the question is whether the  
18 administration costs outweigh the distance-based  
19 formulation, outweigh the benefits of actually  
20 reflecting distance in the rate structure.

21 Q. Okay. That's where I was going next.  
22 Let's suppose we've gotten over the administrative  
23 costs or they're minimal and implemented. Now would  
24 you compare our imaginary wire center pair based on  
25 the zone, distance zones, versus Mr. Denney's Column

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1 Three? What are the advantages that you find?

2 A. I guess the principal advantage of this  
3 arrangement, this type of arrangement --

4 Q. This meaning your --

5 A. The two, the columns you're talking about  
6 on Exhibit 304.

7 Q. Well, as modified by wire center, instead  
8 of exchange?

9 A. Exactly. Or Mr. Spinks' exhibit -- revised  
10 exhibit whatever, I forget the number. Also maybe  
11 changed for wire centers. I believe I did hear Tom  
12 say it would be fairly easy to make that conversion,  
13 as it would be for any of these.

14 The only thing -- the thing you'd lose most  
15 by going to Spinks, by wire center, or this by wire  
16 center, or going with Mr. Denney's proposal, is the  
17 fact that distance does have a significant effect on  
18 cost. All the loop models show that, all the  
19 discussion about loop models over the last three or  
20 four years has really been premised on distance, as I  
21 said, and it just seems like distance should become  
22 one of those things that is reflected in the pricing,  
23 because, bottom line, I don't believe there's any  
24 disagreement that distance is an extremely important  
25 factor.

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1           You know, Mr. Tucek actually developed his  
2 rates by going into the model and pulling out the  
3 distance-based cost and matching it to the distances  
4 in the wire centers in Washington. So to get to Mr.  
5 Tucek's final set of numbers, he had to use  
6 distance-based cost to get there. So bottom line is  
7 distance is an important cost factor, and that's what  
8 you lose if you don't reflect distance in the rate  
9 structure.

10       Q.    Okay. Then could you look at Exhibit 305.  
11 These are your examples of the MapQuest searches.  
12 Let's see. I think it's on the third page in. It's  
13 got an ad, Bigger than Godzilla.

14       A.    One of those things about reprinting web  
15 pages.

16       Q.    At the top, then, and at the bottom. Could  
17 you look at the bottom of that page, and do you see  
18 where it says, Copyright 1997, 2000 Snap?

19       A.    Mm-hmm.

20       Q.    It says, Terms of use and copyright info --  
21 copyright, Infospace.com, use subject to license?

22       A.    Yes.

23       Q.    Did you by any chance happen to go to  
24 Infospace.com to look at the terms of the license?

25       A.    It's a standard license that would not

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1 permit them to be used. I did just glance at it. It  
2 wouldn't permit it to be used without a license to  
3 the Washington CLEC community. But, again, we are  
4 reading too much into this example, I'm afraid, but  
5 that is absolutely correct. It would have to be  
6 licensed by whomever provided the database.

7 CHAIRWOMAN SHOWALTER: I don't have any  
8 further questions.

9 COMMISSIONER HEMSTAD: I don't have any  
10 questions.

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

12 BY COMMISSIONER GILLIS:

13 Q. One issue, a question that I had in my mind  
14 since we've been talking about MapQuest and these  
15 different databases, the way it defined distances, it  
16 hasn't been clear to me. It seems like any database,  
17 whether it be MapQuest or whatever, would need to  
18 have a geocode address basis, wouldn't it?

19 A. Probably does. That's probably how  
20 MapQuest works, I would guess.

21 Q. Well, I mean, I can't think of how we could  
22 define a distance between two points unless you had  
23 two geocodes.

24 A. Yes.

25 Q. At the same time, we just came off public

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1 debates on cost models and the discussions of the  
2 arguments over who's got the best brand of  
3 alternatives to geocodes and talking about how  
4 geocodes don't really exist in any comprehensive  
5 fashion, particularly when you get outside the major  
6 urban areas, but, yet, in this discussion we're  
7 talking about existence of databases that can define  
8 distances. How do you reconcile that?

9 A. Well, I think there are two things to say  
10 about that. One is I'm not sure that all the  
11 discussion about weaknesses in states with geocoding  
12 really is that meaningful in terms of the cost  
13 models.

14 Q. But lack of existence of a database with  
15 geocodes is what has driven people to talk about  
16 these alternatives.

17 A. I understand, but I'm not sure that the  
18 geocoding limitations are anywhere but really  
19 hinterland areas. What we're talking about here is  
20 in terms of pricing types of things. So if I went to  
21 look up two geocoded addresses through this system or  
22 some other one, where it came back we don't know  
23 where these are, that would not be fatal to this  
24 proposal, because you would just have to default to  
25 the average price somehow. I'm not sure how often

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1 that condition arises, and I think the application is  
2 a little bit different between trying to locate  
3 things in a model so that you can build out loop  
4 plant to it and simply locating the distances between  
5 two addresses.

6 The geocoding application we're talking  
7 about here is much less detailed. It's much less  
8 significant than it would be in the cost model  
9 prices.

10 Q. But I assume you'd want your proposal to  
11 operate uniformly throughout all of US West and GTE's  
12 area, including the hinterlands, I'd assume?

13 A. It should be eventually able to operate  
14 uniformly. And again, what I really tried to tee up  
15 here was the notion that this idea shouldn't just be  
16 dismissed because someone would say, well, it's too  
17 difficult to do today. That's why I said there  
18 should be a process in the industry, Mr. Spinks said  
19 a workshop, to get to that point, rather than just  
20 use the argument that it's just too difficult to deal  
21 with.

22 And the reason you don't want to just rest  
23 on that argument, it seems to me, is because distance  
24 is an important cost factor in loops, and loops are  
25 the most important cost factor in competition, so --



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1 by far, the most important cost factor. So I'm not  
2 saying this is the way to implement it with MapQuest  
3 or whatever, but it's the kind of thing that I think  
4 should be addressed with the view toward eventually  
5 having that type of pricing for UNEs.

6 Q. I was also interested in your conversation  
7 with Dr. Gabel on efficient competition, and I have  
8 to say, whenever anybody rests their argument on  
9 efficient competition, the first question I have is,  
10 well, what happens to those that used to benefit from  
11 inefficient competition, and are there enough gains  
12 in the system to justify it.

13 And I ask this question just purely as a  
14 pragmatic question. You and Staff have both argued  
15 for distance-based rates, and kind of a broad  
16 question that I think we have to think about is is it  
17 worth it today versus maybe down the road or  
18 whatever, and a part of the -- I guess a part of the  
19 analysis, I would think, is given distance-based  
20 rates potentially translate into distance-based  
21 retail rates, which may or may not be true, and  
22 there's that potential, then there are a small group  
23 of customers that are on the end of the long loops  
24 that do, in fact, end up paying substantially more  
25 than a system where it might be more average for

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1 them.

2 A. That's right.

3 Q. And you would hope out of that there would  
4 be a substantial drive to provide more competitive  
5 options. And I understand Mr. Knowles, and you  
6 repeated that argument, but I want to ask you, I  
7 guess, a very basic question of, sitting here right  
8 now, do you think the distance-based rates really  
9 would make that much difference in driving additional  
10 competition over what we would have with an  
11 averaged-based rate system?

12 A. I'm not sure, in the short run, how to  
13 answer that question. I think, in the long run --  
14 and this is also probably an issue with respect to  
15 how you look at universal service. The more you can  
16 have a number that reflects cost, whether that's a  
17 price that someone's paying in the hinterland for  
18 their telephone service or not, that's one possible  
19 way that number could be used, but that's probably  
20 not the politically feasible one or desirable one  
21 socially. That same number could be used to indicate  
22 a draw from the universal service fund, obviously,  
23 and without changing retail prices necessarily.

24 Then you get a situation, and I said this  
25 in my testimony, as I think you'll see coming up

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1 pretty soon, where wireless, fixed wireless providers  
2 and other providers of service over the -- that don't  
3 have to go out and build loops through all that rocky  
4 terrain for miles and miles, they're going to start  
5 to find it attractive to serve customers.

6         The FCC's going to auction channels 60 to  
7 66 of the UHF TV channels next year, and that is just  
8 beautiful for using, among other big other  
9 applications, to provide fixed wireless loop service  
10 to large parts of the country. So what you've done  
11 by deaveraging is to say -- and in fact, a company  
12 now, Western Wireless in -- I think it's North  
13 Dakota, has actually applied to become a universal  
14 service provider.

15         If you say, You have -- we will give you  
16 half the difference between the retail price and what  
17 it actually cost, retail price is \$20. It actually  
18 costs 100 from these models. We'll give you \$40  
19 extra in addition to the \$20 in revenue that you can  
20 get a wireless company to serve a hinterland area in  
21 eastern Washington. At \$60, which is the example I  
22 just came up with, I think a lot of those fixed  
23 wireless services are going to prove in economically  
24 within the next very few years, particularly if the  
25 FCC allows that most desirable spectrum to be used

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1 that way.

2           So I've given long answers, and I  
3 apologize. But the short answer is I think you need  
4 to have some deaveraging there to eventually get  
5 competition into those places that aren't going to  
6 have it otherwise.

7           Q. But what I'm -- and that's helpful, but  
8 what I'm trying to get at, in answer from you, is  
9 probably more of a timing issue as much as anything.  
10 What you appear to propose is the desired end gain  
11 from your perspective, but at the same time we're  
12 dealing with a reality now of the amount of  
13 investment dollars that are out there, where it's  
14 going to go, and last week I was listening to a bunch  
15 of people, companies making presentation to Wall  
16 Street people about their big plans for the future,  
17 but I don't know, they haven't done it yet. And  
18 whether or not they do it, it remains to be seen.

19           And should we be -- is it inappropriate for  
20 us to be more incremental in our approaches now and  
21 look at maybe a more modest reform, particularly  
22 given we don't have a state universal service fund,  
23 with thoughts of refining and reforming as  
24 competition actually takes hold, or is the proposal  
25 that you make with regard to the wholesale pricing

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1 structure that important of an economic incentive to  
2 get right that it's actually going to make the future  
3 competitive options in rural areas a reality faster?

4 A. I think it's important to -- that it will  
5 do that, what you said at the end about competitive  
6 options. My question to you would be what time  
7 horizon. We're sitting here, it's four years after  
8 the Telecommunications Act of '96 was passed, and  
9 we're probably still a good couple of years away from  
10 the point where CLECs, even in metropolitan areas,  
11 can just go across the street and get some customer  
12 and sign them up. I mean, it's still a case-by-case  
13 kind of a basis thing, where they have to do the  
14 economics very carefully.

15 That's four years out, maybe six years  
16 before you see ready competition of the type where  
17 you can just pick up the phone in downtown Seattle  
18 and say, I want to switch my phone companies, like  
19 you switch long distance companies. And that's in  
20 downtown Seattle. So the time horizons for these  
21 things are a lot longer than people think.

22 The Telecommunications Act told the FCC  
23 they had to develop all the implementation rules in  
24 six months. And if you recall the press and all the  
25 publicity at the time the act was passed, it was

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1 competition was going to be here, like, next year for  
2 everybody, and that was silly at the time, people  
3 were saying that, and it was silly to give the FCC  
4 only six months to react to this. But in fact, this  
5 is going to take six, seven years just for many  
6 areas, metropolitan areas.

7           Your time horizon further outside the  
8 metropolitan areas is probably 10 -- you know, to get  
9 the stuff under the current system, the current  
10 regulatory system, you could take another five or six  
11 years to do all the things you're talking about. In  
12 the meantime, the economics are going to change much  
13 faster than that if wireless service comes in.

14           So there's going to be a gap, if you don't  
15 consider the time horizon where you're still  
16 implementing the universal service fund -- and I  
17 agree that the fact you don't have the authority  
18 right now is a big impediment -- but there will be a  
19 gap where you're still working on the regulatory  
20 issues five or six years out and the economics will  
21 have kicked in, but there won't be -- that system  
22 won't be in place to do that.

23           So you're actually, if you don't put at  
24 least the process in place to begin distance  
25 deaveraging now, you're really delaying it for four

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1 or five years. And in that time, the economics, I  
2 think, are going to change enough that you'll be  
3 missing an opportunity. I'm not saying you have to  
4 go all the way with it today, particularly given the  
5 legislative situation, which is something you think  
6 about, that the time horizon is actually, for  
7 regulation, is much longer than the market horizon.

8 Q. And that's helpful, too. Would you agree  
9 that there's maybe kind of a corollary to kind of a  
10 --

11 THE REPORTER: I'm sorry, I couldn't hear  
12 you.

13 COMMISSIONER GILLIS: Forget it.

14 Q. Do you think that there's some value in  
15 thinking about the most simple policy possible to  
16 achieve the objective, and I say that, again, as a  
17 pragmatist, as the more complications we put into any  
18 set of policies, the more there are for both lawyers  
19 and economists to argue about and the more chance for  
20 delay. And is it a reasonable principle to think  
21 about what is the minimum we need to do to move down  
22 the road, as opposed to about the most complex  
23 proposal that offers the best theoretical framework?

24 A. Well, yeah, I wouldn't say that I'm  
25 advocating this proposal as the best theoretical

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1 framework, but the fact is you're already, in my  
2 opinion, intractably in the web of the lawyers and  
3 consultants and economists, and I don't see you  
4 getting out of that any time soon. So the regulatory  
5 time horizon's not going to shorten in the next.

6 If anything, I'm being as critical of  
7 myself or the other people on this side of bench as  
8 anything, because it has gotten to be an extremely  
9 complicated process since just before the act was  
10 passed. With competition, it's gotten extremely  
11 complicated, and you may have to be ready to take on  
12 a little bit more complicated policy solution just so  
13 that by the time you figure out how to do that, it's  
14 ready to match the market.

15 COMMISSIONER GILLIS: Thank you.

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

17 BY CHAIRWOMAN SHOWALTER:

18 Q. Well, I'm going to lay out three options,  
19 and then I want to ask you about two of them. So  
20 option one, we order distance-based zones now, but  
21 because we haven't got the mechanism in place to do  
22 it precisely, we couldn't implement it right now, so  
23 we would have to delay implementation. I think  
24 somebody suggested next January, but that sounds kind  
25 of soon. That's option one.



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1           Option two is we order interim or  
2 short-term zones that are wire center-based, but we  
3 initiate a process to get to distance-based zones, so  
4 that would take some time. I don't know how long  
5 before that would be in place.

6           Option three is we simply order distance --  
7 excuse me, order wire center zones for now, and at  
8 some later time, when it looks like maybe we need it  
9 or maybe there's more competition or we've got the  
10 time to look into it, we get around to the  
11 distance-based model, should it seem compelling.

12           I'd like to ask you about -- to compare the  
13 second option with the third, which I think might  
14 have been Commissioner Gillis' question, as well.  
15 But what would we lose in your view, or not lose, by  
16 going to option three versus option two, in some real  
17 world sense? I'm assuming -- all these options would  
18 assume, as a given, for the sake of this question,  
19 that distance-based zones are desirable, so that, at  
20 some point, we want to get there.

21           A.    Mm-hmm.

22           Q.    But what would you say about the advantages  
23 or disadvantages of option two versus option three?

24           A.    The advantages, the advantage of option two  
25 doesn't have to do with telecommunications networks

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1 or -- but it is clearly the more advantageous  
2 approach, because it has to do with how regulators or  
3 government regulate. What we've seen is that if you  
4 say we'll just put this off for some time, then it's  
5 in everyone's interest to sort of ignore it, because  
6 everybody's busy for the time being. But it's also  
7 in the specific interest of those who like the status  
8 quo to make sure that it's put off longer and longer  
9 and longer.

10 Q. You're talking about option three right  
11 now?

12 A. Yeah, that would be option three. From a  
13 regulatory standpoint, it's better to set forth  
14 criteria, even if they can't be implemented today,  
15 say this is our policy today, we plan to implement  
16 this within the next period of time, and you might do  
17 that in terms of when the universal service fund is  
18 done or something, one year after that, and then tell  
19 people, when we get ready to implement this, you had  
20 better have worked out, through workshops and things,  
21 and we'll tell the Staff to do this, work these  
22 issues out ahead of time so that when we get around  
23 to considering it, we won't have all this buzz about  
24 whether there are implementation problems or not.

25 In fact, one of the things you could say to

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1 the incumbent is you're always going in and changing  
2 your databases to do all sorts of things, new things.  
3 Keep this in mind that this is going to be something  
4 that's going to be a requirement, and when you can  
5 cost-justify it, you should be thinking about doing  
6 that. And the advantage of that is you get people  
7 off the dime, so to speak.

8           The example that I would -- in current  
9 regulatory experience, and I haven't had anything to  
10 do with these cases, so I could just use this as a  
11 high-level example. Ameritech came in in Michigan  
12 for long distance authority two years ago, and they  
13 had really worked on it and they really thought they  
14 had done everything that they needed to do to get  
15 long distance authority under 271.

16           And the FCC said, We're going to be so  
17 specific about things in the order -- and in the  
18 subsequent orders with respect to Louisiana, they're  
19 extremely detailed. Some of it wasn't even probably  
20 a good idea, but what that did was motivate everybody  
21 to go out and solve the problems they had seen. The  
22 New York Commission said, Well, we're not going to --  
23 we don't understand these OSS issues as well as we  
24 should. We're going to go out and get Deloitte and  
25 Touche, or KMPG, I guess, to do an extensive series

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1 of tests on the OSS systems. Now all the states are  
2 doing that.

3 In other words, the regulator goes out and  
4 says, We're going to do this and get the ball  
5 rolling, and you're either on the train -- I'm mixing  
6 metaphors here. You're either on the train or off  
7 the train, but I think that's a much more proactive  
8 way of getting things done, even if, in the case of  
9 the FCC, they may have specified some requirements  
10 originally that were too difficult to deal with or,  
11 in the case of the New York Public Service  
12 Commission, they couldn't really audit themselves,  
13 every last OSS transaction between Bell Atlantic and  
14 the CLECs, nevertheless, they said we're going to  
15 push it forward. That's sort of the same kind of  
16 thing I'm talking about here.

17 CHAIRWOMAN SHOWALTER: Thanks.

18 THE WITNESS: Thank you.

19 JUDGE WALLIS: Anything further?

20 MS. McCLELLAN: I do have some follow-up  
21 cross.

22 JUDGE WALLIS: Ms. McClellan.

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

24 BY MS. McCLELLAN:

25 Q. In response to a question from Ms. Anderl,

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1 you stated that you made some modifications to Mr.  
2 Spinks' data in preparing your final recommendation;  
3 is that correct?

4 A. Yes.

5 Q. Okay. Did you change the values for the  
6 following wire centers: Fairfield, Loomis, Malden  
7 and Thorton?

8 A. That was not one of the modifications I  
9 made.

10 Q. Did you make any modifications to Stevens  
11 Pass?

12 A. No.

13 MS. McCLELLAN: Okay. I have no further  
14 questions.

15 MS. ANDERL: No, Your Honor.

16 JUDGE WALLIS: Mr. Kopta.

17 MR. KOPTA: Thank you, Your Honor. I guess  
18 I've gone from being the Godfather to Spiderman, but  
19 I will ask a few questions to follow up.

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

21 BY MR. KOPTA:

22 Q. In your initial discussion with Ms.  
23 McClellan, she was discussing whether feeder may or  
24 may not follow driving distance, and her response was  
25 that that was irrelevant. Would you explain why that

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1 is not relevant?

2 A. Well, let me think about that. I guess I  
3 was thinking in the broad sense that, given that all  
4 the cost numbers that we're talking about here are  
5 estimates from various models that have been blended  
6 together, to parse it out and say, well, this  
7 particular data point, unless it's really off the  
8 wall, like the one that Mr. Spinks talked about, to  
9 parse it out the way it's been done here the last  
10 couple of days is, to me, just not productive,  
11 because the underlying numbers are just -- there's a  
12 range of uncertainty around those, and the fact that  
13 a feeder, a particular feeder line does or does not  
14 follow a road just isn't relevant.

15 There's so much material that has been put  
16 in here, and it's been true in all the other cases  
17 about loop cost, is just buzz to confuse -- in my  
18 opinion, to confuse the issue. I mean, the numbers  
19 do count, the models do count, but at some point you  
20 just have to stop parsing out every possible thing  
21 that could be changed in this model or that model and  
22 move on.

23 Q. You also had a discussion with Ms. Anderl  
24 about Exhibit 401, which was the Staff response to a  
25 bench request, in which there was a discussion about

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1 wire center designation based on information that was  
2 contained in HAI 5.0a. Do you recall that  
3 discussion?

4 A. Yes.

5 Q. As you also discussed in response to  
6 Commission questions changing the recommendation that  
7 you have in your testimony to focus on wire centers,  
8 as opposed to exchanges. If those adjustments were  
9 made in your proposal, would that eliminate any  
10 reliance on information allegedly derived from HAI  
11 5.0a?

12 A. I'm not sure I could give you a complete  
13 answer to that, because what the fourth paragraph of  
14 this data request says is that the wire center area  
15 data for US West was obtained from the HAI 5.0a  
16 version of the model. Again, I don't see how that  
17 has any real substantive effect. Either the wire  
18 center area data that are being used by Staff are  
19 accurate or they're not. If they're obtained from  
20 5.0, instead of 3.1, but the 5.0, on that particular  
21 data element, is more accurate, I don't see what the  
22 issue is, because it's just one set of numbers, the  
23 area, square miles of the wire centers that US West  
24 has. And that should be an objective fact.

25 And if, in fact, there was an error in a

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1 previous version and it's been corrected, I think it  
2 should be -- accuracy should be encouraged, so I  
3 don't see how this would affect what I was trying to  
4 do at all.

5 Q. And you could use your methodology if, for  
6 example, you used the values that Mr. Denney put  
7 together in his list of wire centers to develop the  
8 same kind of proposal using your methodology, could  
9 you not?

10 A. Well, it's really Mr. Spinks' methodology.  
11 I can't take credit for it. But I believe it could  
12 be developed, the distance factors can be developed  
13 from Mr. Denney's data set, if you wanted to do that,  
14 in addition to having a number of wire center zones.

15 Q. You've also had a discussion with Ms.  
16 Anderl about UNE prices being the price for US West's  
17 retail rates. Do you recall that discussion?

18 A. I do.

19 Q. Does that necessarily mean that retail  
20 prices would need to reflect the geographic  
21 deaveraging and wholesale rates that the Commission  
22 might order in this particular proceeding?

23 A. Well, what I contemplate is on the  
24 downside, they would. What I'm saying is that the  
25 incumbents would have the ability to lower rates to



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1 meet competition, to the extent the rates have been  
2 deaveraged and the deaveraged rates are lower. And I  
3 suspect that they'll want, for various reasons, to  
4 deaverage on a more customer-specific basis simply  
5 because there's much -- there's less of a revenue  
6 penalty to the incumbent to doing it that way, as  
7 opposed to doing it across the board.

8 Q. And is that pricing flexibility you're  
9 discussing an aspect of an effectively-competitive  
10 market, or is it something that US West or GTE should  
11 be allowed to do while they still have monopoly power  
12 in a particular location?

13 A. Well, it's part of an effectively  
14 competitive market, but clearly you're getting to a  
15 point where, when you deaverage the wholesale rates,  
16 that's going to have to be reflected in the retail  
17 side in some form. My point is that the ILECs can do  
18 that and choose to lower their revenues in specific  
19 cases as long as there's a price floor, so that it's  
20 not anti-competitive. And that is something that  
21 they should expect to be doing in a competitive  
22 market. When people face increased competition, one  
23 of the things they have to do is lower prices.

24 Q. And there are also non-economic factors,  
25 such as service quality on the wholesale side, that

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1 should factor in to whether or not the incumbent  
2 should be allowed pricing flexibility?

3 MS. ANDERL: Your Honor, I object. This is  
4 beyond the scope.

5 MR. KOPTA: I don't believe so.

6 MS. ANDERL: I know I --

7 MR. KOPTA: Ms. Anderl was discussing  
8 pricing flexibility, and I'm clarifying Mr.  
9 Montgomery's responses to when pricing flexibility  
10 would be appropriate.

11 JUDGE WALLIS: The witness may respond.

12 THE WITNESS: To tell you the truth, Mr.  
13 Kopta, I don't think I've thought through all the  
14 factors, but there might be other factors to consider  
15 besides the fact that the wholesale rates have been  
16 deaveraged. But the fact that the wholesale rates  
17 have been deaveraged is going to be an important  
18 factor.

19 Q. And you were also discussing with Dr. Gabel  
20 economic efficiencies and that it was more efficient,  
21 at least from an economic perspective, not to target  
22 customers a farther distance from the wire center.  
23 Do you recall that discussion?

24 A. Yes, I think I was trying to get into --  
25 that was a prelude to the discussion of -- that's a

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1 static representation. What Mr. Knowles told us  
2 today was a dynamic view that says, on day one,  
3 there's a certain condition, and you know, six months  
4 from now it's different, because I can suddenly  
5 afford to go out and compete. When I said that it  
6 was a prelude to that discussion.

7 Q. So as a prelude, and taking into  
8 consideration Mr. Knowles' testimony and your  
9 expansion of that, would it be more efficient, from  
10 an economic standpoint, if loops reflect their  
11 underlying cost in terms of longer loops, as well as  
12 shorter loops in geographic areas?

13 A. On the wholesale side, yes.

14 Q. And in fact, if a loop, for example, were  
15 \$50, that is a long distance from the central office,  
16 and a CLEC could use some of the fixed wireless  
17 technology that you have discussed at \$35 and the  
18 averaged rate was \$28, would the CLEC receive the  
19 proper signals if the loop price for that area were  
20 \$28 or \$50?

21 A. Well, that hypothetical requires the  
22 existence of a universal service mechanism, as I said  
23 before. You'd have to have some draw to make up the  
24 difference between 28 and 35. It would probably be  
25 something on the order of a difference between \$28,

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1 and you would get a number that comes out odd, but  
2 that would be -- it would be at \$11. So it would be  
3 the difference between 28 and \$39. So I'm saying you  
4 split the difference between the actual cost and the  
5 current retail rate. You'd be saying to the provider  
6 who could do it for \$35, We'll give you \$39. We'll  
7 cap your revenues at \$39. You get 28 from your  
8 customer, the customer's no worse off than they were,  
9 and we give you 11 out of the fund. And  
10 theoretically, at least, the wireless provider says,  
11 Okay, I'll go do it for that. I could make money at  
12 that level. And that's how that's supposed to work.

13 Q. And I guess I was discussing about the  
14 wholesale rates. The difference between a wholesale  
15 rate at \$28 and \$50 for an unbundled loop in a  
16 particular geographic area and the CLEC's ability to  
17 self-provision the loop using an alternative  
18 technology for \$35. Which price, in your view, sends  
19 the appropriate economic signals to the CLEC in  
20 making that build or buy decision?

21 A. The number that sends the correct economic  
22 signal is actually \$50, technically speaking. And  
23 you say to the provider that can do it for 35, we'll  
24 be willing to pay you an extra 15, you know,  
25 technically, because you're a more efficient provider

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1 if you do it at 35. In practice, I don't think that  
2 capping it at a hundred percent of the difference is  
3 likely to be the way it works.

4 MR. KOPTA: Thank you. That's all I have.

5 JUDGE WALLIS: Anything further? It  
6 appears that there's not. Mr. Montgomery, thank you  
7 for appearing. You're excused from the stand.

8 THE WITNESS: Thank you.

9 JUDGE WALLIS: Is there any more evidence  
10 to come before the Commission in this matter? It  
11 appears that there is not.

12 A couple of administrative matters. The  
13 parties have submitted a proposed outline. Just at  
14 first glance, I believe the Commission would like a  
15 little bit more specificity in the outline, and I'm  
16 going to suggest that we take a look at it and  
17 provide it to the parties before the conference on  
18 Friday for further comments.

19 The technical conference that we've  
20 discussed will take place Friday, following the  
21 prehearing conference. I think we've touched on all  
22 of the pending rulings. Is there anything else of an  
23 administrative nature that we need to address?

24 MS. ANDERL: Your Honor, I would just like  
25 to confirm, so that the record is clear, that I did

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1 not offer and did not intend to offer the cross  
2 exhibits that I had marked for Mr. Spinks.

3 JUDGE WALLIS: Thank you.

4 MS. RENDAHL: Your Honor, I had a question.

5 Since I was not here the first two days of hearing  
6 and I understand that GTE has made plans to make a  
7 formal motion to strike, if there's any -- just for  
8 scheduling purposes, how the bench plans to address  
9 that, or if you will know by Friday, so that we can

10 --

11 JUDGE WALLIS: I think it's premature for  
12 us to do anything in advance of receiving something  
13 from GTE and seeing what they want and then assessing  
14 what the Commission would need in terms of responses.  
15 So I'm not, by any means, encouraging GTE to submit  
16 such a motion. The Commission has clearly ruled upon  
17 the US West/GTE motion to strike by saying that the  
18 Commission will not consider the HAI Model for  
19 comparative for pricing purposes. And beyond that,  
20 if more is necessary, then GTE may, if it wishes,  
21 submit a proposal, and then we will take a look at it  
22 and we will see.

23 I would say that in order to meet our  
24 schedule, we would need to have that motion in very  
25 short order, or that proposal in very short order so

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1 that we can allow parties the opportunity to comment  
2 and to make a ruling upon it.

3 The briefing schedule we had talked about  
4 and I believe, subject to confirmation again on  
5 Friday, that briefs on March 27th would be  
6 acceptable.

7 MS. ANDERL: Thank you.

8 JUDGE WALLIS: So is there anything further  
9 before we conclude today?

10 MR. EDWARDS: May I revisit the -- I  
11 apologize. I had something else I needed to take  
12 care of. On the matrix that we distributed on the  
13 portions of the testimony that ought to be struck,  
14 what I had intended to do is, given the fact that the  
15 order's already been entered striking the portions of  
16 the testimony and saying if the parties couldn't  
17 reach agreement, the Commission is perfectly capable  
18 of taking care of it themselves, and disregarding  
19 those portions of the testimony that are tainted, and  
20 one of the things, obviously, we tried to do is to  
21 point out to the Commissioners what we think is  
22 tainted. I had intended to merely attach that matrix  
23 to the brief.

24 MS. RENDAHL: So your intent is just to  
25 address it on brief, primarily?

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1 MR. EDWARDS: Yeah, I don't know that I --  
2 well, we will probably address portions of it in the  
3 brief and try to clarify what we think is out, yeah.

4 MS. RENDAHL: That's acceptable to Staff, I  
5 mean, to address the matter in brief.

6 MR. EDWARDS: I think the records, at least  
7 with the parts that are important, the record is  
8 pretty clear where it is and where it isn't.

9 MS. RENDAHL: I think the record is clear  
10 what US West and GTE think is inappropriate, so --

11 JUDGE WALLIS: All right. I do think --  
12 it's difficult in this situation, because it's been  
13 apparent through the examination of the witnesses  
14 that the reference to the HAI 5 Model does almost  
15 permeate the presentations.

16 However, I think it's also clear from the  
17 record that the Commission's intention was clear that  
18 the relationship between other testimony and the HAI  
19 5 Model are clear and that the Commission will be  
20 able to disregard the references in that sense, and I  
21 think I heard Staff to say that there was no  
22 objection to GTE presenting a list of the references  
23 that you believe to be affected; is that correct?

24 MS. RENDAHL: Right, I have no objection to  
25 GTE presenting a list of what it finds objective and



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1 addressing that in brief. Now that I'm forewarned, I  
2 can respond accordingly.

3 MR. EDWARDS: I'm okay doing it that way,  
4 if everybody's in agreement with doing it that way.  
5 Alternatively, we'll file a motion.

6 MS. RENDAHL: That's just more work.

7 MR. EDWARDS: It is.

8 MS. RENDAHL: Who needs more work right  
9 now?

10 MR. EDWARDS: Exactly, I agree. I'm going  
11 on vacation.

12 JUDGE WALLIS: That's true all the way  
13 around.

14 MR. EDWARDS: Handle it that way. But it  
15 is not an unavoided issue, and that is why I spent as  
16 much time on it as I have.

17 JUDGE WALLIS: Yes, we appreciate that.  
18 And it has been the Commission's intention from the  
19 very beginning of this phase to impose that  
20 limitation. And the Commission, therefore, shares  
21 your concern and has set this process up with the  
22 idea that there would be no impermissible reference.  
23 You know, as a practical matter, as we said, it kind  
24 of permeates the presentations, and by just striking  
25 everything that's --

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1 MR. EDWARDS: I agree.

2 JUDGE WALLIS: -- related, it may leave  
3 some holes where what's left just doesn't make any  
4 sense.

5 MR. EDWARDS: I understand, I understand.

6 JUDGE WALLIS: So in the sense, and I feel  
7 I'm perseverating, in the sense that the Commission  
8 has always intended to and has re-affirmed its  
9 intention not to rely on the results of the HAI  
10 Model, I think that's clear. I think it's clear from  
11 the record which elements relate to the results of  
12 that model, and I don't think we're going to have a  
13 problem.

14 MR. EDWARDS: All right. Fair enough. I  
15 just have one last thing, though. Sort of along the  
16 lines of Mr. Montgomery, when he talks about we're  
17 four years away from the Telecom Act, one of the good  
18 things about the Telecom Act, it's given me the  
19 opportunity to appear in front of lot of commissions  
20 around this country. This is my first opportunity to  
21 appear here, and I thank you for your hospitality.

22 JUDGE WALLIS: Thank you. It's been very  
23 pleasant to have you and your colleague with us, and  
24 we'll see more of you.

25 MS. RENDAHL: Thank you.

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JUDGE WALLIS: With that, we're adjourned.  
(Proceedings adjourned at 4:33 p.m.)