

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

BEFORE THE WASHINGTON
UTILITIES AND TRANSPORTATION COMMISSION

In The Matter of the Review of)	UT-023003
Unbundled Loop and Switching Rates)	Volume XI
And Review of the Deaveraged Zone)	Pages 472-601
Rate Structure.)	

A hearing in the above-entitled matter was held at 1:32 p.m. on Wednesday, May 26, 2004, at 1300 South Evergreen Park Drive, Southwest, Olympia, Washington, before Administrative Law Judge THEODORA MACE, CHAIRWOMAN MARILYN SHOWALTER, COMMISSIONER RICHARD HEMSTAD, and COMMISSIONER PATRICK OSHIE.

The parties present were as follows:

QWEST CORPORATION, by Lisa Anderl, Attorney at Law, 1600 Seventh Avenue, Room 3206, Seattle, Washington 98191.

COMMISSION STAFF, by Shannon E. Smith, Assistant Attorney General, 1400 S. Evergreen Park Drive, S.W., P.O. Box 40128, Olympia, Washington, 98504-1028.

COVAD COMMUNICATIONS COMPANY, by Karen Frame, Senior Counsel, 7901 Lowry Boulevard, Denver, Colorado 80230.

Barbara L. Nelson, CCR
Court Reporter

0473

1 VERIZON NORTHWEST, by Catherine Kane
2 Ronis, Brad Berry, Polly Smothergill, Attorneys at
3 Law, Wilmer, Cutler & Pickering, 2445 M Street N.W.,
4 Washington, D.C. 20037-1420.

5 AT&T COMMUNICATIONS OF THE PACIFIC
6 NORTHWEST, INC., by Gregory J. Kopta, Attorney at
7 Law, Davis, Wright, Tremaine, 2600 Century Square,
8 1501 Fourth Avenue, Seattle, Washington, 98101.

9 WEBTEC, by Arthur A. Butler, Attorney
10 at Law, Ater Wynne, LLP, Two Union Square, 601 Union
11 Street, Suite 5450, Seattle, Washington 98101
12 (Appearing via teleconference bridge.)
13
14
15
16
17
18
19
20
21
22
23
24
25

1

2

INDEX OF WITNESSES

3

4

WITNESS:

PAGE:

5

DR. HOWARD SHELANSKI

6

Direct Examination by Ms. Ronis

478

7

Cross-Examination by Mr. Kopta

483

8

Examination by Dr. Gabel

505

9

Examination by Chairwoman Showalter

524

10

Examination by Commissioner Hemstad

546

11

Recross-Examination by Mr. Kopta

551

12

DR. JAMES H. VANDERWEIDE

13

Direct Examination by Mr. Berry

554

14

Cross-Examination by Mr. Kopta

562

15

16

INDEX OF EXHIBITS

17

18

EXHIBIT:

MARKED:

OFFERED:

ADMITTED:

19

1-T, 2-T

--

480

480

20

3

--

553

553

21

101-T

--

558

559

22

102 through 104

--

558

559

23

105-TC

--

558

559

24

106-T

--

558

559

25

107 through 109

--

558

559

0475

1 JUDGE MACE: Let's be on the record in the
2 Matter of the Review of Unbundled Loop and Switching
3 Rates, the Deaveraged Zone Rate Structure, and
4 Unbundled Network Elements, Transport and
5 Termination. This is Docket Number UT-023003.
6 Today's date is May 26th, 2004. We are convened in
7 the offices of the Washington Utilities and
8 Transportation Commission in Olympia, Washington, and
9 we are scheduled now to begin the evidentiary
10 proceeding in this docket.

11 My name is Theodora Mace, and I'm the
12 Administrative Law Judge hearing this case. The
13 Commissioners are here with me, Chairwoman Marilyn
14 Showalter, Commissioner Richard Hemstad and
15 Commissioner Patrick Oshie on my right, and on my
16 left, Dr. David Gabel, who will be participating in
17 the hearing.

18 I'd like to have the oral appearances of
19 counsel now, just the short form, and I'll begin with
20 the counsel that are in the hearing room. And if you
21 would begin, Ms. Ronis.

22 MS. RONIS: Catherine Kane Ronis, of Wilmer
23 Cutler Pickering, LLP, representing Verizon. And on
24 my right is my colleague, Brad Berry, also of Wilmer
25 Cutler and Pickering.

0476

1 MR. KOPTA: Gregory J. Kopta, of the Law
2 Firm Davis, Wright, Tremaine, LLP, on behalf of AT&T
3 Communications of the Pacific Northwest, Inc.

4 MS. FRAME: Karen Frame, on behalf of Covad
5 Communications Company.

6 MS. SMITH: Shannon Smith, Assistant
7 Attorney General, for Commission Staff.

8 JUDGE MACE: I'd like to turn now to the
9 conference bridge. Are there any counsel on the
10 conference bridge?

11 MR. BUTLER: Yes, Arthur A. Butler of Ater
12 Wynne, LLP.

13 JUDGE MACE: Mr. Butler, can you speak up,
14 please?

15 MR. BUTLER: Yes, Arthur A. Butler, from
16 Ater Wynne, LLP, on behalf of WebTEC.

17 JUDGE MACE: Thank you. Anyone else?

18 MS. ANDERL: Thank you, Your Honor. Present
19 in the hearing room -- I'm sorry I didn't make my
20 presence known sitting in the back -- Lisa Anderl, on
21 behalf of Qwest.

22 JUDGE MACE: Thank you. I guess, just
23 preliminarily, it's my understanding that there are
24 no issues that concern Qwest that are left in this
25 proceeding; is that right, Ms. Anderl?

0477

1 MS. ANDERL: That's correct, Your Honor.

2 JUDGE MACE: I think I'd like to address a
3 few preliminary, very brief preliminary matters
4 before we go ahead with the cross-examination of the
5 first witness, Dr. Howard Shelanski.

6 The first one is we did agree that each
7 witness would be allowed a three-minute-or-less
8 summary of testimony, and we'd like you to make sure
9 to adhere to that three-minute limit and to make sure
10 that it's a summary. We'll take a break probably
11 around 2:45, depending on how the testimony is going.

12 The third item that I want to mention has to
13 do with a decision that's been referred to in many
14 places in the testimony, and that is the -- thank
15 you. That is the Wireline Competition Bureau, I
16 think I've got that correct, Virginia Arbitration
17 Order. And my understanding is that is not an order
18 of the Federal Communications Commission; it's a WCB
19 order. And if you're going to refer to it in
20 cross-examination, you should make clear -- not say
21 an FCC order, but rather refer to it as the WCB
22 Virginia Arbitration Order, so that we're clear about
23 the distinction.

24 Is there anything else of a preliminary
25 nature before we go ahead with Dr. Shelanski? If

0478

1 not, then we're ready. Please approach the witness
2 table here. We're set up for a panel and anticipate
3 that we'll have varying numbers of people, so I guess
4 you get to choose your chair. Before you sit down,
5 stand and raise your right hand.

6 Whereupon,

7 DR. HOWARD SHELANSKI,
8 having been first duly sworn by Judge Mace, was
9 called as a witness herein and was examined and
10 testified as follows:

11 JUDGE MACE: Please be seated.

12 THE WITNESS: Thank you.

13 JUDGE MACE: Go ahead.

14

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

16 BY MS. RONIS:

17 Q. Good afternoon, Dr. Shelanski. Can you
18 state your name and business address?

19 A. Yes, Howard Shelanski.

20 JUDGE MACE: And Dr. Shelanski, could you
21 make sure that your microphone is on and you speak
22 directly into it?

23 THE WITNESS: Okay. Now it's on.

24 JUDGE MACE: That's better.

25 THE WITNESS: Howard Shelanski, University

0479

1 of California at Berkeley, Berkeley, California,
2 94720.

3 Q. Dr. Shelanski, do you have in front of you
4 your direct testimony dated June 26th, 2003?

5 A. I actually left my copy in my briefcase.
6 May I have a copy?

7 Q. Sure.

8 CHAIRWOMAN SHOWALTER: That's one of those
9 boilerplate questions. We've never heard anything
10 but yes.

11 Q. And for the record, it's been pre --

12 A. Yes.

13 Q. It's been pre-marked as Verizon Exhibit 1-T.
14 Was this testimony prepared by you or under your
15 direct supervision?

16 A. It was prepared by me.

17 Q. And if I were to ask you the same questions
18 today, would your answers be the same?

19 A. Yes, they would.

20 Q. You also have in front of you your rebuttal
21 testimony dated May 12th, 2004?

22 A. Yes.

23 Q. And for the record, that's been pre-marked
24 as Verizon Exhibit 2-T. Was this testimony prepared
25 by you or under your direct supervision?

0480

1 A. Yes, it was.

2 Q. If I asked you the same questions today,
3 would your answers be the same?

4 A. Yes, they would.

5 MS. RONIS: Is this the appropriate time to
6 move the two exhibits?

7 JUDGE MACE: Yes, I believe so.

8 MS. RONIS: Verizon would like to move
9 Exhibits 1-T and 2-T into evidence at this time.

10 JUDGE MACE: Any objection to the admission
11 of those proposed exhibits?

12 MR. KOPTA: No objection.

13 JUDGE MACE: I'll admit them.

14 CHAIRWOMAN SHOWALTER: Ms. Kane, I can tell
15 from your first questions you're a pretty fast
16 talker. And for our sakes and the reporter's sake,
17 be sure to take a look at her every once in a while
18 to see if she's straining, or at us, and see if we
19 are.

20 MS. RONIS: Thank you. I will do that. Dr.
21 Shelanski, you may present your three-minute summary
22 at this time.

23 THE WITNESS: Okay. I will be very brief
24 with my summary, because my testimony's rather brief.
25 I have three points that I try to make in the

0481

1 testimony that's been pre-filed.

2 The first is that the pricing of unbundled
3 network elements should have the goal of producing
4 not just competitors, but meaningful competition that
5 benefits consumers over time. In my view, that means
6 setting prices that get competitors to do the right
7 thing, where, by the right thing, I mean the path of
8 market entry that provides the least-cost way for a
9 competitive carrier, a CLEC, to serve local
10 customers.

11 If it is more efficient for a CLEC to serve
12 local customers over its own facilities to build and
13 operate those facilities, then unbundled network
14 element prices should not artificially attract the
15 CLEC away from that entry path. If, on the other
16 hand, a CLEC cannot obtain and operate facilities at
17 less than the total forward-looking cost of ILEC
18 facilities, unbundled network element prices should
19 not be set so high as to drive the CLEC out of the
20 market or to less efficient alternatives of serving
21 customers.

22 UNE prices should set correct pricing
23 signals that induce market entry in a way that isn't
24 really producing the image of competition, and
25 several people serving consumers at the same cost or

0482

1 at subsidized cost, but rather meaningful competition
2 that will endure for the long-term.

3 My second point is that for UNE prices to
4 achieve this job of sending the correct pricing
5 signals, of creating efficient and enduring
6 competition, the prices for unbundled network
7 elements must be based on the real world
8 forward-looking costs of an incumbent carrier. By
9 these, I mean the costs that the incumbent, as it
10 evolves its network going forward, will actually
11 incur, not the cost of a hypothetical network that,
12 in fact, does not reflect the costs of entry and of
13 serving customers over time.

14 The third point that I tried to make in
15 my testimony is that, based on my review of the
16 testimony of other Verizon witnesses and my
17 consultation with the company, Verizon's cost model,
18 VZ Cost, in most respects comports with the objective
19 of sending efficient forward-looking and real world
20 pricing signals to CLECs. I say in most respects
21 because the model has been designed in a way that --

22 JUDGE MACE: Ten seconds.

23 THE WITNESS: -- that is quite forward
24 looking and perhaps understates its costs to the
25 benefit of CLECs.

0483

1 MS. RONIS: Dr. Shelanski is now available
2 for cross-examination.

3 JUDGE MACE: Mr. Kopta.

4 MR. KOPTA: Thank you, Your Honor.

5

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

7 BY MR. KOPTA:

8 Q. Good afternoon, Dr. Shelanski.

9 A. Good afternoon.

10 Q. While we are identifying exhibits, do you
11 have in front of you a copy of Exhibit 3?

12 MS. RONIS: That is the data request.

13 THE WITNESS: The data request, yes, I do,
14 sir.

15 Q. And is this data request accurate, or your
16 response accurate?

17 A. Yes, what I reviewed in preparation for my
18 testimony, yes, sir, it is.

19 Q. Okay. Then, if you would, turn to page two
20 of your direct testimony, Exhibit 1-T, and
21 specifically beginning on line 13.

22 A. Yes.

23 Q. Am I correct that, based on your response in
24 Exhibit 3, that you have not participated in the
25 development of any of Verizon's cost models?

0484

1 A. That is correct. I have not.

2 Q. Have you participated in running any of
3 Verizon's cost models?

4 A. No, sir, I have not.

5 Q. Okay. Then, beginning on line 17, do you
6 have any background in engineering?

7 A. No formal training in engineering.

8 Q. Okay. So am I correct in stating that your
9 opinions, with respect to modeling issues and
10 engineering issues, are based on testimony of other
11 witnesses in this proceeding and other proceedings,
12 as well as FCC orders?

13 A. Yes, although, just to clarify, they are
14 based on testimony by the cost panel and by other
15 witnesses in this proceeding, and discussions that
16 have told me about developmental aspects of the
17 model, what some of the principles of developing the
18 model were, how the assumptions of the model operate,
19 but, you know, insofar as actually working on
20 development of the model, you're correct. I have not
21 been involved with that.

22 Q. Would you turn, please, to page seven of
23 Exhibit 1-T?

24 A. Yes.

25 Q. Specifically line 17. It begins on line 17.

0485

1 This is actually in the middle of the sentence and
2 the middle of the line. You state, The advent of
3 competition has rendered retail demand less certain.
4 Is that correct?

5 A. Yes.

6 Q. Okay. If competition has rendered retail
7 demand less certain, would a risk premium such as you
8 support the recommendation of for the cost of capital
9 for UNEs also be appropriate for the cost of capital
10 for retail rates?

11 A. Well, I would defer any discussion of cost
12 of capital there beyond UNEs to Dr. VanderWeide.
13 That's quite outside anything I've written about in
14 this testimony and is not something that I'm
15 particularly expert in. But I will say that there
16 are differences in the kinds of risks that demand
17 uncertainty at the retail level, create for Verizon
18 in its retail operations and for Verizon in its
19 wholesale operations.

20 One of the important differences is that
21 Verizon, in terms of its forward-looking maintenance
22 of its network and deciding how best to manage its
23 network assets for demand on certainties in the
24 retail market, it has direct control over those
25 assets insofar as it uses them for the retail market.

0486

1 It has a lot less discretion on how to manage assets
2 when it has to have them readily available by law in
3 the wholesale market.

4 So the risk premia and the ability to manage
5 them going forward, you may wind up, in other words,
6 with different kinds of risk premia, different levels
7 of the risk premium. I wouldn't say they're
8 identical, if that's what you were driving at.

9 Q. Well, that raises a couple of additional
10 questions. First, as sort of a cleanup, you do
11 support Dr. VanderWeide's cost of capital analysis in
12 your testimony?

13 A. Yes, I do.

14 Q. All right. So have you undertaken any
15 independent analysis of cost of capital issues, or is
16 your testimony based solely on reading his testimony?

17 A. No, let's be very clear. I do not talk at
18 all about the appropriate level of the risk premium,
19 and I've done no calculation of the appropriate level
20 of the risk premium. What I have testified about,
21 and is a matter of independent theoretical analysis
22 and judgment, is whether or not a risk premium is
23 warranted, whatever the appropriate level may be. So
24 my testimony on risk premium is my own analysis. It
25 is not based on Dr. VanderWeide's analysis.

0487

1 Q. Okay. Then let's discuss that for a bit.
2 Did I hear you correctly that the distinction that
3 you're drawing between UNEs and retail service is
4 that there's some compulsion to provide UNEs, whereas
5 there's not the same compulsion to provide retail
6 services?

7 A. I think that there are -- and again, I would
8 defer to Dr. VanderWeide, I would defer to the
9 network engineers. There may be more -- certainly,
10 they're a carrier of last resort obligations and
11 things like that that apply to a regulated incumbent
12 telephone company, but the way the network is
13 designed, the way that services are provided, these
14 are things that fall much more in a zone of
15 discretion in the retail operation than they do in a
16 wholesale operation when a carrier's been told that a
17 certain UNE must be available in a certain place.

18 Q. So are you saying that how Verizon spends
19 money to maintain a UNE is different than how Verizon
20 spends money to maintain the same facility when it's
21 part of a retail service?

22 A. I think it depends what you mean by
23 maintain. If you're talking about short run, if it's
24 clear that a piece of network equipment is going to
25 be in place for either retail or wholesale, I have no

0488

1 particular knowledge, you'd have to ask Verizon, but
2 I'd be very surprised if there was any difference.
3 I'm certainly not arguing that they maintain the
4 assets differently, but what kinds of assets they put
5 in place can be constrained by regulatory
6 obligations. That's my point. And the regulatory
7 obligations differ at the wholesale and retail
8 levels.

9 And you'd have to, I think, talk to a
10 network manager to see the specifics of how managing
11 assets differ, but it's safe to say that a regulated
12 firm sometimes can't do things that it would like to
13 do when it has obligations to third parties. And I'm
14 talking about third parties other than consumers, to
15 take certain assets out to replace them with certain
16 kinds of plant, to not have them available in certain
17 areas.

18 Q. So you're saying that if Verizon wanted to
19 take a particular facility out of service, it would
20 have different constraints if it were providing that
21 facility to a competitor than --

22 A. I'm saying it's possible. I'm not stating
23 that as an affirmative argument; I'm just saying it's
24 possible. I was trying to really get to the point
25 that I don't think that you necessarily have risks

0489

1 that are identical or commensurate between the
2 wholesale and the retail level, and I was just
3 speculating as to why that might be so.

4 Q. Okay. Well, let's just accept, for purposes
5 of this discussion, that there is a distinction.
6 Would a risk premium nevertheless be appropriate if,
7 at a different level, for retail rates?

8 A. No, no --

9 MS. RONIS: I object.

10 JUDGE MACE: Just a moment. It's helpful,
11 first of all, as between the counsel and the witness,
12 try not to speak over each other.

13 THE WITNESS: Oh.

14 JUDGE MACE: Because it's hard for the
15 reporter to take down what you're saying.

16 MS. RONIS: My objection is I think Dr.
17 Shelanski has stated a couple times that he is not an
18 expert on retail cost of capitals. That's for Dr.
19 VanderWeide to answer, and he's here today.

20 JUDGE MACE: Mr. Kopta, your response.

21 MR. KOPTA: Well, I believe I clarified, or
22 the witness clarified that he has an independent
23 basis for his opinion on evaluating risk premiums,
24 not the amount, but whether a risk premium is
25 appropriate, so I'm simply exploring whether a risk

0490

1 premium is appropriate under those circumstances.

2 JUDGE MACE: Well, I recognize that his
3 testimony is not specifically on risk premium, but he
4 does allude to risk premium and to competition with
5 regard to retail demand. I wouldn't want to go too
6 much further with this, and I don't know how far the
7 Commission would want to go, but I'm going to allow
8 some additional questioning.

9 THE WITNESS: Well, let me just clarify.
10 There is -- I think there's a much more fundamental
11 difference between the retail and the wholesale
12 premia that we're talking about. The wholesale
13 premium incorporates an option value and, as Dr.
14 VanderWeide can explain much better than I can, but
15 you know, anyone familiar with the basic option
16 pricing models and the basic cost of capital
17 calculations that are recognized under GAAP, there
18 are differences in how you calculate the risk premium
19 for something that has an option value, so the option
20 value that is created for CLECs in taking or not
21 taking UNEs is something that does not typically
22 factor into a cost of capital analysis. It is a
23 different kind of risk premium from the kind of risk
24 premium that is typically factored into a cost of
25 capital. So there -- I think I understand now what

0491

1 you were getting at.

2 There are differences in the nature of the
3 risk, the option value that is at issue in the
4 wholesale market versus the risk of general demand
5 fluctuations, which would be at issue in the retail
6 market.

7 Beyond that, I really can't say anything
8 about the technical differences of what the -- or the
9 quantitative differences in what the risks would be,
10 but they are fundamentally different kinds of risk,
11 and you calculate an option value differently from
12 the way you calculate a general market risk.

13 Q. Okay. If you would, please, turn to page
14 nine of Exhibit 1-T, specifically a portion beginning
15 on line 16. And the sentence that begins on that
16 line says, Note that this discretionary demand by
17 entrants for network elements is itself a source of
18 uncertainty for incumbents trying to make efficient
19 investment decisions. Have I read that correctly?

20 A. Yes.

21 Q. Verizon is obligated to invest to serve
22 retail customers, regardless of the demand for
23 wholesale services, isn't it?

24 A. I would assume so. I'm not familiar with
25 the specifics of its state obligations.

0492

1 Q. So is it your testimony, then, that this
2 discretionary demand for UNEs somehow impacts
3 Verizon's decision to invest in its network to
4 provide retail services?

5 A. No, that's not what I say at all. What I
6 say is that the discretionary demand for UNEs at
7 wholesale is a source of uncertainty in and of itself
8 that certainly affects, assuming a fixed pool of
9 capital to invest, the allocation of investment
10 within the company.

11 Q. So are there allocations of investment that
12 Verizon would make solely to provide UNEs?

13 A. Sure, especially if UNEs are being
14 maintained because they have to be available in an
15 environment of declining access lines. Then it's not
16 the case that every asset that is available at
17 wholesale is necessary to serve customers at retail.

18 Q. Can you give me an example?

19 A. I can't give you a specific example, but I
20 can tell you that, generally, what I'm talking about
21 is there's an assumption that's often made that any
22 UNE, if not taken by the CLEC, will automatically be
23 rolled over and used by the ILEC to serve the
24 customer, and that's an assumption that doesn't hold
25 in an environment of declining access lines.

0493

1 Q. Well, Verizon does not construct facilities
2 solely to provide UNEs, does it?

3 A. It doesn't need to. That's irrelevant to my
4 point. It may have facilities already constructed
5 that are available as UNEs that have to be maintained
6 and provided as UNEs, but in an environment of
7 declining access lines, if the CLEC does not use
8 them, if the CLEC takes them for a month and loses
9 the customer, it's not necessarily the case that --

10 JUDGE MACE: Dr. Shelanski, I'm sorry, I'm
11 wondering if you could speak a little more closely to
12 your microphone and enunciate a little. I'm just
13 losing some of what you're saying.

14 THE WITNESS: I'm sorry, Your Honor. Is
15 that better?

16 JUDGE MACE: That's better. Thank you.

17 THE WITNESS: Okay. It's not necessarily
18 the case that every asset provided at wholesale, when
19 it ceases to be used by the CLEC, is automatically
20 redeployed for retail services in an environment of
21 declining access lines.

22 Q. Well, perhaps we're talking about two
23 different things. My understanding was -- or my
24 approach has been an investment, which means
25 originally constructing the facilities, and my

0494

1 understanding is that Verizon only originally
2 constructs facilities to serve retail customers. Is
3 that incorrect?

4 A. It depends how far back you want to go.
5 Certainly, when the network was built, that's what it
6 was built for. On a forward-looking basis, you'd
7 have to talk to Verizon about that, but to the extent
8 that they will have obligations, and I might add that
9 its obligation to provide facilities where it doesn't
10 have them is something that is quite up in the air
11 and is heavily litigated around the states, so taking
12 into account, on a forward-looking basis, the
13 possibility of being required to provide assets where
14 the company would otherwise not have them for retail
15 purposes because they've been demanded at wholesale
16 is an open question, it's been litigated before a
17 number of commissions, and I think it's safe to say
18 that it at least raises the question for the company
19 of whether their forward-looking investment is driven
20 not solely by retail, but by its UNE obligations.

21 Q. If you would please turn to page 12 of
22 Exhibit 1-T, specifically on the sentence beginning
23 on line six. There you're discussing Verizon's model
24 and you state, The model thus likely generates
25 forward-looking operating and maintenance costs that,

0495

1 when adjusted for changes in quality and quantity of
2 services, are lower than those that will actually
3 exist. Have I read that correctly?

4 A. Yes, you have. Yes.

5 Q. It's your use of the term likely I wanted to
6 explore. Is this based on any study that you've
7 conducted in terms of a comparison between these
8 types of costs?

9 A. Well, I mean, it's based on the way that the
10 VZ Cost model is designed. The VZ Cost model does
11 not base costs on the network equipment that will, in
12 fact, be in place over the course of the study
13 period. It assumes that the incremental
14 technological changes that Verizon is putting in
15 place, for example, the technology it is deploying
16 incrementally going forward for loop plant or
17 distribution plant is ubiquitously deployed in the
18 network.

19 What that does is to base costs on
20 facilities assumptions that are more forward looking,
21 more aggressive than what, in fact, will be in place.

22 Now, it is not always the case -- and the
23 reason I say likely is for the following reason.
24 It's not impossible for UNEs, on a forward-looking
25 basis, to be much higher than, for example, even book

0496

1 cost. Trenching today, for new loops, is quite
2 expensive. And so if you really were going to take
3 the forward-looking cost of a -- of building a new
4 kind of loop, it would be extremely high, and your
5 TELRIC price might be, if you really did it right,
6 looking at the fixed cost and the operating and
7 maintenance costs, be very, very high.

8 That may not be the case for all facilities,
9 I don't know. I haven't looked at every component of
10 the network and seen what the forward-looking costs
11 would be, what the new costs would be. It's also
12 hard to know exactly what quantity and quality
13 adjustments to make. A loop now provides -- is
14 capable of providing different kinds of services with
15 higher levels of quality than was the case 10 or 15
16 years ago. So how do you adjust for those in the
17 cost?

18 But the main point of the sentence is that
19 Verizon does not take into account all of the capital
20 and depreciation costs that you would really have to
21 take into account if you assumed a completely new
22 network being built going forward and, moreover, one
23 that was susceptible to, if not actual full
24 replacement, even an assumption of full replacement
25 in a subsequent rate proceeding. It doesn't adjust

0497

1 for the very high depreciation levels and the
2 substantial cost of capital that would be involved
3 there.

4 What it does is it takes the cost of capital
5 basically of its existing assets, yet gives the
6 benefits of the presumably more efficient operating
7 and maintenance costs of the new equipment. So it
8 mixes and matches, if you will, the benefits of the
9 new equipment, lower short run costs, with the
10 benefits of the older equipment that still has
11 economic value, lower fixed costs, and that's why I
12 say it likely understates the actual costs of the
13 network going forward.

14 Q. Okay. Well, I just wanted to know whether
15 your use of the word likely would be the same as
16 mine, which is that it may or may not be true, but in
17 your view, it is more likely to be true than not?

18 A. In my view, it is more likely to be true
19 than not.

20 Q. Would you turn to page 13 of Exhibit 1-T,
21 and specifically beginning on line 16, you're
22 discussing purchases and discounts of switching.

23 A. Yes.

24 Q. Have you reviewed Verizon's switching
25 contracts for the state of Washington?

0498

1 A. No, I have not.

2 Q. Have you been involved in any negotiations
3 with switch vendors?

4 A. No, I've never purported to be.

5 Q. So this testimony is, again, based on the
6 testimony of other witnesses that have --

7 A. Well, no, again, there is -- there are
8 principles at issue here, and the principle that is
9 at issue here is, again, not about what the
10 particular number should be for a discount, but it's
11 about the hazards of assuming that the deepest
12 discount that has ever occurred should be presumed to
13 be the forward-looking switch price. And talking as
14 an economic matter about why that is not an
15 assumption that one should make going forward, and
16 that very deep switch discounts of the order of one
17 percent of list, where switches are being sold for
18 pennies on the dollar, as an economic matter don't
19 make sense.

20 And if you are going to assume a very deep
21 discount, there really needs to be very compelling
22 evidence that, (A), that really is the switch price,
23 and that the margins for that switch are not being
24 recouped by growth additions, upgrades, and other
25 aspects of the switch, and (B), that if you actually

0499

1 did, as AT&T's model proposes, fully replace all the
2 switches in the Verizon network, that those are the
3 discounts that one would see. The discount that
4 might -- that might be given for one switch would not
5 be the discounts that were reflected in a much higher
6 demand environment to full replacement.

7 So my point there is not so much to say that
8 I have been involved with -- switch discounts in any
9 particular number is wrong, but more to say that
10 looking at very deep discounts and assuming that
11 those were the forward-looking prices probably
12 misperceive what the real price of the switch would
13 be or is, and would greatly understate real switching
14 costs going forward.

15 You know, and I might add that the other
16 part of my point here is that if switch discounts
17 really are so extreme, there has to be a compelling
18 theory of why those discounts aren't available to
19 everybody in the market, and why the discount that is
20 used for UNE price calculations should be different
21 from the discount that is used for judging impairment
22 in switching.

23 There really is no theoretical basis, no
24 economic basis for using discounts differently in the
25 two settings. And if we really are talking about 95

0500

1 percent discounts as being the forward-looking price,
2 if that's the real price of the switch going forward,
3 then they're clearly not a source of impairment.
4 They're available for almost nothing to anybody.

5 Q. What is the switch discount that AT&T
6 assumes in the HM 5.3 model?

7 A. I think it's 99 percent, but --

8 Q. Ninety-nine percent?

9 A. Again, I'm not exactly sure, but that -- on
10 belief without saying I know it to be true. And it
11 wouldn't matter if it was 99 percent or 89 percent or
12 79 percent. The point is it needs to be economically
13 justifiable. And just looking at the cheapest switch
14 ever sold and presuming it to be the forward-looking
15 price is almost certainly not economically
16 justifiable.

17 Q. And that's what you believe that the HM 5.3
18 model does?

19 MS. RONIS: Objection, again. Dr. Shelanski
20 has said he doesn't know the specific inputs of
21 Hatfield, so -- and it's been answered.

22 JUDGE MACE: Mr. Kopta.

23 MR. KOPTA: He was characterizing the
24 switching costs and prices in the model, and I'm just
25 following up.

0501

1 THE WITNESS: No, actually, I was not, sir.

2 JUDGE MACE: Now, if you can just hold on
3 for a minute. I just want to deal with the
4 objection, and then, if you can answer, I'll let you
5 answer, and otherwise -- anything else? I'll allow
6 the answer to these questions.

7 THE WITNESS: No, I mean, again, you know,
8 as you all know, I was not involved with the
9 development of your model, so I choose not to discuss
10 or comment on your model.

11 Q. Okay. If you would please turn to page 19
12 of Exhibit 1-T. On line one, you state that UNEs are
13 intended to be a transitional device to facilitate
14 and move to alternative facilities or technologies;
15 is that correct?

16 A. Let me review the whole sentence. Yes.

17 Q. And is that your legal interpretation of the
18 Telecommunications Act of 1996?

19 A. Well, I'm not here to offer legal
20 interpretation, but I think it's fair to say that it
21 is an interpretation that is -- has been often
22 advanced by -- it was advanced in the legislative
23 history to the Act, it has been discussed by the
24 Federal Communications Commission, most recently in
25 its TELRIC NPRM.

0502

1 Q. So is it your belief that one or more
2 competitors will completely duplicate Verizon's
3 network in Washington?

4 A. No, and that's not anything that is required
5 for competition to be meaningful. It must be
6 understood there are a lot of customers that an
7 unconstrained competitor would choose not to serve in
8 any market, so the requirement to complete
9 duplication is not what the competitive market would
10 provide and it's not, in my opinion, the appropriate
11 benchmark for competition or for lack of impairment.

12 Q. Is it possible that a CLEC would decide that
13 it wanted to use Verizon facilities and had no
14 interest in constructing its own?

15 A. If the prices are low enough, it certainly
16 is. That would be a bad outcome, but it's possible.

17 Q. So you think that it should never be the
18 case that a CLEC would simply want to use Verizon
19 facilities rather than constructing its own?

20 A. No, if it's paying the full cost of those
21 facilities, the real cost of those facilities, and
22 that's the best that it can do, then, in keeping with
23 the theory of TELRIC and the principles of the Act
24 and general economic principles, that would be fine.

25 Q. Now, if you would please turn to your

0503

1 rebuttal testimony, which is Exhibit 2-T,
2 specifically the sentence that begins on line 11.

3 JUDGE MACE: On page one?

4 MR. KOPTA: On page two, I'm sorry.

5 Q. And farther down in that sentence, you
6 state, beginning on line 12, The existing locations
7 of the basic points in the network configuration --
8 and you give some examples -- would be unlikely to
9 change significantly, even if the network were built
10 entirely from scratch. Is that correct?

11 A. Well, let's be clear, this paragraph must be
12 taken in context of what comes before it. Verizon's
13 customers are going to be where they are, trees,
14 rocks, rivers, physical -- you know, topological
15 characteristics are going to be where they are, and
16 this is in the context of saying that even if Verizon
17 were to build its network from scratch, it would not
18 be able to do all of the things that a greenfield or
19 even a scorch node model does in terms of an
20 efficient routing and in terms of the algorithms that
21 lead to loop lengths and loop costs that completely
22 ignore those features.

23 Q. So you do hold out the possibility that the
24 network design would be different today than it was
25 when it was originally constructed?

0504

1 A. Well, as Verizon's own engineering plans and
2 cost models make clear, they're not simply
3 perpetuating exactly the same network going forward.

4 Q. If you would turn to page three, beginning
5 on line 16, a sentence that starts toward the end of
6 the line, In particular, one would have to include
7 today's costs for obtaining rights of way along the
8 newly-drawn routes and for the placement of
9 facilities such as DLCs, which are likely to be
10 significantly higher than what Verizon previously
11 paid for rights of way, et cetera.

12 A. Yes, that's the sentence.

13 Q. Are you referring to both public and private
14 rights of way?

15 A. I mean, yes, I think generally I'm referring
16 to both of them.

17 Q. So it's your belief that public rights of
18 way are more expensive today than they have been in
19 the past?

20 A. I have no particular knowledge, but
21 certainly, given the property values of property have
22 increased substantially and congestion has increased
23 substantially, both the price one would predict for
24 rights of way would be higher to reflect higher
25 property values due to increased usage and congestion

0505

1 similarly drives up the price and makes it more
2 costly for rights of way to be allocated. So it's
3 certainly a speculation, that's why I use the word
4 likely, but I think one needs to take that into
5 account in not mixing and matching costs from
6 yesteryear when they're lower with costs for the
7 future when they're lower. You've got to be very
8 consistent.

9 If you're going to rebuild the network from
10 scratch, let's really do it from scratch and take
11 account of all the costs that would be incurred going
12 forward, not just look at the costs that would be
13 lower because technology's more efficient and ignore
14 the costs that would be higher. And that was really
15 my point.

16 MR. KOPTA: Thank you. Those are all my
17 questions.

18 JUDGE MACE: And my understanding is no
19 other counsel has cross? All right. Dr. Gabel.

20

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

22 BY DR. GABEL:

23 Q. Good afternoon, Professor Shelanski. I'd
24 like to begin pursuing the theme of your last remark
25 about needing to have a consistent set of assumptions

0506

1 in the cost study.

2 A. Sure.

3 Q. And it's my understanding that you're the
4 Verizon witness who can best address the general
5 methodology of a UNE cost study, but when it comes to
6 the specifics, that type of question should be posed
7 to another witness; is that correct?

8 A. Yes, that's correct.

9 Q. Okay. All right. What I'd like to do, Dr.
10 Shelanski, is bring to your attention one or two
11 passages from other witnesses' testimony, and then
12 return to the topic of consistency, because I'd like
13 to have your reaction on a particular concern of mine
14 regarding consistency. Okay. The first witness --

15 JUDGE MACE: Dr. Gabel, are you going to
16 give the witness something to read?

17 DR. GABEL: Yes, I will.

18 THE WITNESS: Thank you.

19 Q. Okay. The first is Dr. VanderWeide's May
20 12th, 2004 testimony.

21 JUDGE MACE: That has been marked 106, and
22 can you hold that up? We have to get our copies of
23 that.

24 DR. GABEL: I don't think there's a lot that
25 you need to look through.

0507

1 CHAIRWOMAN SHOWALTER: Is this less than one
2 sentence?

3 DR. GABEL: Yeah, it's just one or two
4 sentences.

5 CHAIRWOMAN SHOWALTER: All right.

6 Q. Would you agree, Dr. Shelanski, that Dr.
7 VanderWeide says that in establishing the cost of
8 capital, that the Commission should assume the
9 presence of full facility-based competition?

10 A. Yeah, I mean, what he's arguing -- what he's
11 citing, and you've marked lines 22 to 24 on page 14
12 of his May 12th testimony, and what he's doing is
13 citing there the Federal Communications Commission
14 Triennial Review Order as bolstering his point, his
15 point being the more general one, that the cost of
16 capital should reflect the risks of competition.

17 Q. All right. And then the second piece of
18 testimony, from Willett Richter's testimony of April
19 20th --

20 JUDGE MACE: Give me just a moment. That's
21 marked 451.

22 Q. At page 24, Mr. -- is it Mr. or Ms. Richter,
23 Willett? I'm sorry.

24 MS. RONIS: Mister.

25 Q. Sorry. Mr. Richter is responding to some

0508

1 recommendations of Mr. Donovan regarding structure
2 sharing. Mr. Richter's response, at page 24, as I
3 read it, is that these are recommendations that
4 aren't based upon numbers that can be validated by
5 the Commission, that they're assumptions that are
6 made by Mr. Donovan. Is that a correct
7 representation from your reading of this page?

8 A. Well, it's hard to say. I mean, you've
9 outlined several lines here, two of which are
10 questions, and there are only two lines of testimony.
11 I have had nothing to do with Mr. Richter's
12 testimony.

13 Q. Okay.

14 A. So I can't -- I think as far as asking what
15 he's testifying to, you better ask him.

16 Q. All right. Well, let me just ask you to
17 just address this general concern, then. In order to
18 be consistent with Dr. VanderWeide's recommendation
19 that, for establishing the cost of capital, it should
20 be based upon the assumption of a fully-competitive
21 market, what does that imply regarding how structure
22 sharing is done? Do you base the inputs to the cost
23 model based upon the actual levels of structure
24 sharing that Verizon currently experiences, or do you
25 do it based upon a hypothetical fully-competitive,

0509

1 facility-based competition market?

2 A. You know, I must confess, Dr. Gabel, I don't
3 fully understand the question. And as this involves
4 the -- as you see it, consistency issues between Dr.
5 VanderWeide and Mr. Richter's testimony, I think I'd
6 better defer to them to answer this question.

7 Q. Well, let me just ask you in general, since
8 you're the expert on TELRIC methodology, what's your
9 understanding of how structure sharing numbers should
10 be established? Well, let me even move back a step.
11 Is structure sharing a topic that you're familiar
12 with? Do you understand what the term means?

13 A. Yes, but I mean, it goes far beyond the
14 scope of any testimony I've offered. I've never
15 testified on the issue of structure sharing.

16 Q. But you have testified on the topic of a
17 need to have consistency in the cost study input
18 values?

19 A. In the -- consistency in when you were using
20 forward-looking values and when you were using past
21 values and consistency in what cost of capital and
22 depreciation you match with what operating and
23 maintenance costs, yes, that I've testified on.

24 Q. And investment cost, too, forward-looking,
25 because --

0510

1 A. Yes.

2 Q. All right. And do you understand that
3 structure sharing affects the level of an investment
4 that is an output from a cost model?

5 A. Certainly, it does.

6 Q. And do you have -- maybe I'll just ask it
7 one more time, and if you want me to defer to Mr.
8 Richter, I will, but --

9 CHAIRWOMAN SHOWALTER: Dr. Gabel, before you
10 ask your next question, can the witness please define
11 what structure sharing is?

12 THE WITNESS: Yeah, I mean, it is not always
13 the case, when somebody trenches, for example, to
14 bury cable or builds poles or structure, that it's
15 solely for them or that they bear the full cost of
16 that structure. And they may share it with other
17 carriers who -- for example, just to take a concrete
18 example, the city of Washington, D.C., to stop
19 streets from being dug up seriatim, required that all
20 fiber laying and other structural initiatives be
21 proposed jointly by any carrier in a particular
22 window of time that wishes to lay fiber or do
23 whatever, and so for any one carrier to claim that it
24 bore the full costs, you know, for example, in a cost
25 model, would be incorrect, because they're sharing

0511

1 the costs of building that structure going forward.

2 Q. All right. Let me ask you a hypothetical
3 question. Suppose, in a rural area served by Verizon
4 in the state of Washington, currently there's no
5 structure sharing of buried plant with any other
6 utility. Would it be consistent with Dr.
7 VanderWeide's recommendation that the Commission
8 assume, when establishing the cost of capital, full
9 facility-based competition, for the Commission to
10 assume that there's no structure sharing for that
11 buried plant, or should it make a different
12 assumption?

13 A. Now I understand the question. As to how it
14 fits with Dr. VanderWeide's testimony, I'm going to
15 leave that for him to answer, but as for the general
16 question, if -- if, in fact, and we need to be very
17 careful about your use of the word full, because we
18 may not understand that differently.

19 A full competition does not necessarily
20 mean, getting back to Mr. Kopta's point, competition
21 for every line. Competitors rationally stay out of
22 certain markets. But in markets where you can, with
23 some basis, say that there will be structure sharing,
24 then you need, on a forward-looking basis, to be
25 consistent, to have those costs shared on a

0512

1 forward-looking basis. I fully agree with that.

2 But it is not necessarily the case that
3 competition, going forward, leads to structure
4 sharing. And there are a couple of different
5 examples that I could give you, but most notably
6 let's take the case of Alaska, where there is very
7 high level of local competition, and it is being
8 quickly migrated onto the cable plant of the leading
9 CLEC. There will be no structure sharing for the
10 incumbent going forward, because the plant onto which
11 the competitive traffic is being routed already is
12 built, already has rights of way, and will not do
13 anything going forward to change the structure or
14 cost.

15 So while if there is evidence that there
16 will be structure sharing going forward, I fully
17 agree with you that it must be taken into account in
18 the proper justifiable proportions going forward, but
19 competition does not automatically lead to an
20 assumption of structure sharing.

21 Q. Okay. In your example from Alaska, you
22 spoke of rivalry between two facility-based CLECs,
23 and your example was specific to the
24 telecommunications industry. But as I understand,
25 from reading Verizon's case on the cost of capital,

0513

1 they're saying, when you establish the risk for
2 Verizon, you should look at industrial firms, not
3 telephone firms, and that's why the comparables is
4 the Standard & Poors Industrial 500, not telephone
5 industry. Is that your understanding, too?

6 A. Well, again, this is an issue that's
7 squarely within Dr. VanderWeide's testimony and
8 expertise, on which I think I would prefer not to
9 answer questions.

10 Q. All right. Well, just my general -- your
11 example was the telephone industry in the state of
12 Alaska, where there are two facility-based rivals.
13 Is that the right reference point for when the
14 Commission resolves an issue like sharing, looking at
15 a market where there are two facilities-based rivals,
16 or are we in a world where we're supposed to look at
17 things hypothetically, just as we don't look at the
18 level of competition in Washington; we look at what
19 hypothetically could exist?

20 A. I mean, I think that it is inescapable, in
21 any forward-looking process, not to have to make
22 assumptions, and if we want to call them hypothetical
23 or not, you know, it's a fine word. I'm not going to
24 treat it as a term of art, but we have to make
25 assumptions going forward. Some degree of modeling

0514

1 is necessary. VZ Cost is a model. It is not a
2 snapshot of, you know, clear reality.

3 The same thing will take place with
4 structure sharing, but I think we need to -- what I
5 would strive for is, as much as possible, to base
6 whatever structure sharing percentages are used on
7 real evidence of where the competition is coming
8 from, and that may lead to structure sharing
9 percentages that are very different in different
10 markets.

11 In some markets, dense, urban markets, it
12 may be the case that there are CLECs trenching and
13 building fiber rings and building complete networks
14 that overlap the ILECs to some degree, and they may
15 have different network designs, but there may, on
16 some routes, be structure sharing. So to calculate
17 the accurate percentage based on that is, I think, a
18 good thing to do. Look for the evidence.

19 In markets where there is evidence that a
20 lot of the competition is coming intermodally, from
21 wireless or cable, I think there it's perfectly
22 appropriate in structure sharing and for purposes of
23 cost of capital to use the model of two rival
24 facilities-based carriers that are not, in fact,
25 sharing facilities.

0515

1 Q. Dr. VanderWeide, I'd like to now turn to a
2 different topic -- I'm sorry, Dr. Shelanski,
3 Professor Shelanski, I'm sorry. I'd like to turn to
4 a different topic, which isn't specific to your
5 testimony, but I'm just going to ask your opinion,
6 since you are the economist as part of Verizon's case
7 in this proceeding. I understand that we have an
8 exhibit.

9 JUDGE MACE: Yes, this is Exhibit 1200, Dr.
10 Gabel's -- or the Bench's exhibit, and it should be
11 in your folders or you should have copies of it. I
12 did distribute copies of it. The Commissioners
13 should have it. It's the very last exhibit that's
14 marked.

15 Q. Professor Shelanski, I'll try to walk you
16 through this, okay?

17 A. Sure.

18 Q. First, in this case, on June 3rd, Verizon
19 filed an Exhibit, RP-2, that established or proposed
20 a statewide average ISDN BRI loop rate of \$40.76.
21 That doesn't appear on the exhibit that you have
22 here. Instead, it's a different exhibit in this
23 proceeding, okay. So do you have that number in
24 mind? \$40.76 is the proposed rate for an ISDN BRI
25 loop.

0516

1 A. Okay. Could you please define BRI for me?

2 Q. Basic rate interface.

3 A. Oh, basic rate, okay.

4 Q. And then, on the first page, WNU-21, Section

5 Five, Third Revised Sheet Two, you'll see that the

6 current ISDN PRI digital line side port rate is

7 \$13.39. Do you see that?

8 A. Yes, I do.

9 Q. So if we add the proposed statewide rate of

10 \$40.76 to the existing port rate of \$13.39, we have a

11 UNE rate, for just the port and the loop, of \$54.15.

12 Would you accept that?

13 A. Yeah, I mean, I must confess I've never

14 looked at this exhibit before, and so I can't say

15 that I have any, you know, knowledge about what's

16 behind these categories.

17 Q. Okay.

18 A. So you know, I will agree that that's what

19 those two quantities add up to. I really don't know

20 what's behind them.

21 Q. Okay. Then, if we turn the page of the

22 exhibit to Section Seven of WNU-17, we're looking at

23 the rate for home digital ISDN single-line usage, and

24 the access per month rate --

25 A. Mm-hmm.

0517

1 Q. -- is \$30, and that includes a 24-hour block
2 of time. Do you see that?

3 A. Yeah, 25-hour block of time, yes.

4 Q. Yes, 25-hour. And then, on the -- say two
5 pages farther, this is Section Seven, Seventh Revised
6 Sheet 88, we have business digital single-line
7 service, access per month of \$50. Do you see that?

8 A. Okay. I'm sorry, which page are you on?

9 Q. Section Seven.

10 A. Okay. I've got it.

11 Q. You see that?

12 A. Mm-hmm.

13 Q. Okay. My question, Dr. Shelanski, is do you
14 have any understanding of why a wholesale rate for a
15 product would be \$54.15 for the port and the access
16 line, where the tariff rate, with the 25-hour block
17 of time, is \$30 for home use and 50 for business use?
18 Do you --

19 A. Let me look. I'm completely unfamiliar with
20 Verizon Washington's ISDN price or the environment in
21 which it occurs. I'm not qualified to make any
22 comment on this.

23 Q. Well, do you feel that you can just address,
24 in general, should this be something that the
25 Commission is concerned about when setting wholesale

0518

1 rates? Should it be looking at the relationship
2 between the proposed prices for a wholesale service
3 and the existing retail rates?

4 A. I guess I have two -- two comments on that.
5 One is that when we're talking about element pricing,
6 to then turn around and start talking about services
7 in that context is a dicey matter, economically. The
8 FCC specifically decided not to base -- to base
9 pricing under the '96 Act on a service basis. They
10 did it on an element basis. I think -- I'm sure
11 there were a number of reasons for that, but one of
12 them is it's very hard to decide, especially when an
13 element provides multiple services, how to interpret
14 the different prices that are charged amongst
15 different services that use an element.

16 My next point would be that I would not be
17 terribly concerned, as an economist, at least, as an
18 economic matter, about, for example, prices for some
19 services that looked very low, even though they used
20 the same elements, and if the concern would be that,
21 well, some services are not fully recouping a
22 particular proportion of the element, then I don't
23 have any concern about that at all, because in
24 competitive markets, firms do not allocate fixed
25 costs to services. They recover costs as they best

0519

1 can, depending on levels of consumer demand.

2 So some services may be marginal cost priced
3 in a competitive market, where others, for which
4 there's more inelastic demand or less competition or
5 whatever it may be, recoup the fixed costs. But I
6 think it's a very dangerous thing, particularly when
7 you're talking about high-speed services, to start to
8 be concerned that retail prices don't appear to have
9 a sufficient allocation of fixed costs embedded in
10 them, because that's a market that's developing to be
11 quite competitive, and you'll simply hamper
12 competition in that market without changing anything
13 fundamental about the element price. So the focus
14 should be on element prices, not on service prices.

15 Q. I understand from your response that you
16 were distinguishing between the marginal costs, which
17 might be the right cost to look at for retail
18 service, and average costs, which are the right costs
19 to look at for UNE elements; is that correct?

20 A. Well, actually, I mean, I want to be very
21 careful. The real distinction is between service
22 prices and element prices. Once the element is
23 priced at cost, how any provider chooses to use that
24 element and what services they choose to provide
25 using that element and how they price those services.

0520

1 I think, you know, short of the, you know, retail
2 regulation on the wireline telephone side is not
3 something that should be of concern. In other words,
4 if the element is used to provide competitive
5 services or unregulated services, those prices should
6 not factor in or raise concern for the Commission.

7 Q. Have you, in your work for Verizon, reviewed
8 how they undertake retail cost studies?

9 A. No, I have not.

10 CHAIRWOMAN SHOWALTER: For the record, the
11 Bench chastises itself for failing to paginate its
12 own exhibit.

13 Q. Two more questions. Dr. Shelanski, in your
14 rebuttal testimony, at page three, lines 20 to 22,
15 you're discussing rights of way?

16 A. Yes.

17 Q. All right. Could you explain to me how
18 rights of way costs are included in Verizon's loop
19 study?

20 A. I actually would rather defer that to their
21 loop witness, their loopy witness.

22 JUDGE MACE: Hopefully not.

23 Q. The last question, Dr. Shelanski, is an
24 open-ended question, which ties in, I believe, to
25 your opening remark, and it's just, as you just

0521

1 stated, when a forward-looking cost study is
2 undertaken, assumptions have to be made. Is there
3 general guidance you would like to provide the
4 Commission on, when those assumptions are made, what
5 kinds of trade-offs they should give weight to when
6 considering promoting price competition versus
7 facility-based competition? You know, what would
8 economics suggest is in the best interest of
9 society's welfare?

10 A. That is an open-ended question. I think
11 that the most important thing is to make sure that
12 real costs are incorporated in the price for UNEs,
13 and the reason I say that that's the most important
14 thing is you can think of two kinds of errors going
15 forward. You could think of UNE prices that are too
16 low and UNE prices that are too high, and which will
17 have the worst implications for society.

18 I think that UNE prices that are too low
19 have a number of harmful effects. There's certainly
20 a raging debate over what UNE prices that are too low
21 do to investment incentives for the incumbent. I'm
22 not going to enter into that, but I think it's
23 something that needs to be at least kept in mind,
24 that firms that are not being compensated for their
25 real forward-looking costs have an additional

0522

1 constraint placed on their investment decisions
2 moving forward.

3 But I think, more importantly, for society,
4 is the kind of competition that you get. And I think
5 that there's a lot of evidence, and certainly there's
6 statements from a number of authorities, including
7 the FCC, that facilities-based competition brings a
8 number of benefits that competition over a single
9 network cannot provide. Certainly, if the incumbent
10 has very inefficient retail operations, then somebody
11 coming in and using their network at cost can bring
12 benefits to consumers, price benefits to consumers by
13 retailing at lower cost.

14 But there's certain things that the
15 competitor using the incumbent's network won't do.
16 And I love the quotation that Harvard President Larry
17 Summers recently uttered, Nobody in the history of
18 the world has ever washed a used car, nobody invests
19 in -- excuse me, a rental car. Nobody in this world
20 has ever washed a rental car, excuse me. Nobody is
21 going to invest in, improve and upgrade a rental
22 network.

23 So if a CLEC is using the ILEC's network,
24 they're not going to start looking for innovative
25 technology to buy themselves and put in the network.

0523

1 Where you're going to get real innovation
2 and the kinds of things that lead to serious benefits
3 for consumers is by firms having their own facilities
4 and capturing all the economic benefit of innovating
5 and investing in those facilities. And that, I
6 think, has been demonstrated in a substantial number
7 of industries. I think that the kind of investment
8 that we've seen the cable industry undertake is
9 indicative of the kinds of things that firms do when
10 they have their own networks and are not using
11 someone else's network.

12 You know, why -- why are we going to get the
13 kinds of innovation going forward if we're all using
14 the same plant. And that's why I think it's
15 extremely important, especially given the rise of
16 competition, again, this resurgence in the past
17 couple of quarters from cable, evidence that wireless
18 is now substituting as much as it is complementing,
19 these kinds of facilities-based competitors will
20 place real pressure on the ILEC and bring real
21 benefits to consumers.

22 If UNE prices are priced too high,
23 competitors will either, as happens in many markets,
24 enter with slightly higher cost structures if they
25 have to build their own facilities where it's not

0524

1 efficient for them to do so, or we'll see intermodal
2 competition develop.

3 If UNE prices are set too low, I think you
4 have much greater harms. You have, as I say, the
5 sort of tendency to use the ILEC network for far
6 longer than it's efficient and you have effects on
7 the ILEC's non-investment in that network.

8 So my main guidance going forward is not
9 high UNE rates, per se; it's real honest cost-based
10 UNE rates that get to the real costs of the network,
11 so that Verizon is not being undercompensated and so
12 that incumbents do make the right decision about the
13 efficient entry path going forward.

14

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

16 BY CHAIRWOMAN SHOWALTER:

17 Q. I have a couple of questions. One is this
18 issue of intermodal competition. You just talked now
19 about if prices are too high or too low, and let's
20 say, like Goldilocks, they're just right in your
21 eyes, so that we set the prices exactly at your cost.

22 Now, what if those costs, which translate
23 into prices for the CLECs, are too high for them to
24 compete because of intermodal competition? Is that a
25 fair result? This is, of course, a hypothetical. I

0525

1 don't know that's the case, but if that is the
2 result, is that fine because other modes of
3 competition are the preferable ones?

4 A. Right, because that is not -- that is not
5 something that would confer any advantage on Verizon.
6 Verizon would be in the same boat with its CLECs.
7 It's got a network that it's evolving forward as
8 efficiently and as smartly as it can, but let's just
9 assume, as you say, that the cost structure of
10 wireline telephone services is just too high, that IP
11 telephony over the cable networks and cable telephony
12 and wireless telephony just all have lower cost
13 structures. Then that's fair in the sense that we've
14 learned something about the future of wireline
15 competition, in the hypothetical where it just
16 happens to have a higher cost structure, it's not
17 going to survive. But the unfair thing would be to
18 artificially prolong its survival out of the pockets
19 of any one wireline carrier.

20 And so what would happen if the prices were
21 set exactly at costs and those costs were just higher
22 than cable or wireless is that CLECs would make smart
23 decisions and wouldn't waste resources jumping into
24 that market. They would look at other markets, other
25 places to deploy their resources. If UNE prices are

0526

1 set too low, on the other hand, they may say, Look,
2 there's no way that we could build a new network and
3 provide wireline telephone service. We're in this
4 world where everything else is cheaper. But, hey,
5 look, we can use the incumbent's network at below
6 cost, so let's jump in and provide wireline service
7 anyway. That would be a waste of their resources and
8 that would be unfair to the company that has to
9 maintain the network at below cost.

10 Q. But if we set them just right and that
11 turned out to be not as competitive as the other
12 modes, then would that drive Verizon to try to strike
13 deals that were below those costs? Because, at a
14 certain point, if the wireline industry were, in
15 fact, just plain higher than -- rather than go down
16 the drain fast, wouldn't you want to negotiate
17 contracts for lower prices?

18 A. I mean, I think that if you were in a
19 situation where all your customers were deserting
20 you, the first thing you would do is stop investing
21 in your network, because unless you saw a path to a
22 lower cost structure and being competitive, then you
23 would just say, Look, we're in an industry that's in
24 decline, let's not flush any more money down the
25 drain, but what we have is working.

0527

1 And what would happen in a competitive
2 market? You would take what prices you could get to
3 -- that were above your operating costs, let's be
4 very clear about that. You need to -- otherwise, you
5 just shut down. But if you can pay for the
6 electricity, if you can keep running the network, if
7 you knew at some point you were just consuming the
8 assets, weren't investing any more, yes, that's what
9 you would do.

10 You know, if you have a building slated for
11 demolition and it's empty, and someone comes to you
12 and says, I'll pay you \$50 if I can use the building
13 as an art studio until it's demolished, you'll take
14 the \$50, even if the rental rate five years ago was
15 \$100,000, but that's a very extreme situation.

16 In order for a company to go below its
17 forward-looking incremental costs, it would have to
18 be in a -- you know, its total forward-looking
19 incremental costs, not just its operating and
20 maintenance costs, but the full cost of capital
21 depreciation, everything, it would have to be in a
22 situation where it knew that the assets were at the
23 end of their useful lives and that was foreseeable,
24 where it was not investing further and where it was
25 quite clear that it was going to exit the market,

0528

1 but up until that point, I think that -- so in the
2 context of your hypothetical, yes, they'd cut lower
3 deals if they knew this was the end of the road.

4 Q. But could it also be the case that the
5 hypothetical would hold true in some areas, but not
6 others, of a company's footprint?

7 A. I mean, you know, this is -- without having
8 any particular knowledge, just speculating, I want to
9 be clear that that's all I'm doing here, I certainly
10 could imagine some very high-cost areas where
11 wireline telephone service is no longer the efficient
12 way to provide communications services, where you
13 might have a fixed wireless or mobile wireless as a
14 much cheaper alternative.

15 There may be particular exchanges or
16 particular areas of the country -- no wireline
17 telephone provider serves the Hopi Reservation, and
18 none will, because there are cheaper technologies
19 that would come in. Let's suppose there was a legacy
20 wireline network there. Then I suppose, if someone
21 wanted to come operate it and were willing to just
22 pay a little bit above the costs of keeping the
23 lights turned on, you know, the carrier would be
24 willing to sell off the exchange or lease it for that
25 very cheap rate, because you're losing customers to

0529

1 the cheaper wireless.

2 So I do believe that it's possible. But the
3 important thing here is that that that is actually a
4 good outcome, a very good outcome, because what it's
5 saying is better technologies have come along that
6 are providing these services to consumers more
7 cheaply, and at that point there's no need at all for
8 any kind of regulation on the network that is being
9 pushed out of the market because its own incentives
10 will drive it to cut prices, to cut deals.

11 Q. As an economic matter, although that doesn't
12 address certain universal service issues if not
13 everybody's, say, getting that wireless, but that's
14 another subject.

15 A. Oh, and obviously that's the \$64,000
16 question there; right?

17 Q. And then, on that same subject, in terms of
18 what is meant by full competition or that the cost of
19 capital should be based on full competition, at least
20 that's Verizon's position, does that mean full
21 competition of the wireline system or does it mean
22 full competition, including intermodal competition?

23 A. Well, at least -- I can't testify as to what
24 specifically Dr. VanderWeide had in mind, but my own
25 personal view is that it means any competition,

0530

1 intermodal and wireline, anything that puts pressure
2 on the prices of the carrier, puts pressure on its
3 investment decisions, on its service quality, on its
4 future demand levels that it faces, these are all
5 things that are created not just by wireline
6 competitors, but by intermodal competitors. So I at
7 least personally think that you would want to take
8 into account all kinds of competitors.

9 Q. All right. A different subject. You assert
10 that Verizon's model does not use embedded costs; it
11 uses --

12 A. Right.

13 Q. -- existing constraints, such as mountains
14 and lakes. Is that correct?

15 A. And even -- you know, even more than that,
16 it uses existing equipment.

17 Q. Well, this gets to my question, and maybe
18 you can just help me think it through visually. If I
19 think of equipment and lines that run from here to
20 the state capitol -- just for your information,
21 there's a steep bank, a lake, and a steep bank up.

22 A. Okay.

23 Q. And it's about a mile as the crow flies, but
24 it's three miles to drive it, and Verizon doesn't
25 serve it, anyway. But if it did -- if it did, what I

0531

1 understood you to say is that the model should take
2 into account that there's a steep bank, a lake, and
3 another steep bank, but that the model does not --
4 here's where I'm confused -- does not -- is not
5 accounting for the actual cost of the poles that go
6 the three miles around the road and up to the
7 capitol. Can you just help me with this distinction?

8 A. Yes, let me -- there are two issues here.
9 Let me start with, if I could, just to get it to one
10 side, the question of embedded cost versus actual
11 assets.

12 The fact that Verizon is using in its cost
13 model going forward a switch that's in place today or
14 that was in place last year doesn't make it an
15 embedded cost model, because it's not using the book
16 value of that switch to generate capital and
17 depreciation of costs. What it's using is a
18 forward-looking value of that switch, which may be
19 quite a bit lower than book.

20 So the fact that current facilities are
21 being used in the network as it's modeled going
22 forward is different from saying that book costs are
23 being used in the model, in fact, very different.

24 So when I say in my rebuttal testimony that
25 Verizon's network -- that Verizon's model is not an

0532

1 embedded cost model, that's what I mean, and I try to
2 draw a distinction between a model that uses actual
3 facilities and a model that uses embedded costs.

4 Then there's the second issue about what
5 they actually do in the model.

6 Q. Okay. Before you go to that second issue,
7 though, let's take the switch. You're saying you're
8 not using the book cost of the switch; you're using
9 the forward-looking cost of the switch. But
10 supposing there is a new and better switch to be had
11 and no one would ever buy the current switch, what
12 does the model do in that instance, or what should a
13 model do in that instance?

14 A. Well, I think that a model needs to do the
15 cost calculation going forward. Based on -- taking
16 into account the purchase price of this new and
17 better switch and the operating and maintenance costs
18 of the new and better switch, is it worthwhile to
19 replace the existing switch or to keep it, and that's
20 really the question that any firm asks itself going
21 forward.

22 Q. So there's a sunk cost, but you're saying --
23 but if there's a sunk cost, what is your sunk cost?
24 When you decide whether it's worth it to put into the
25 model the new and better switch, you say, Well, we've

0533

1 already got a switch, but how do you value that
2 existing switch?

3 A. Well, you -- the existing switch, in order
4 to -- the calculation that you would do is to --
5 let's say that it cost \$5 a month -- or \$5 a day to
6 operate the existing switch, and only \$2 a day to
7 operate the new switch. When you look at that
8 comparison, you don't automatically buy the new
9 switch. You also have to factor in over the --
10 however much longer you think that the old switch
11 will be usable, the purchase price of the new switch.
12 So you're actually assuming away the fixed costs of
13 the old switch completely and just focusing on the
14 short run -- I mean, this is how a firm in the real
15 world would do things.

16 I've already paid for that switch. I can't
17 get that money back. Let's make that assumption,
18 let's make it a true sunk cost. I can operate it for
19 five bucks a day. But by the new switch, I get my
20 operating costs down to two bucks a day, but I have
21 to pay \$10,000 up front. Hmm. Over time, that adds
22 up -- over the short term, that adds up to a lot more
23 than five bucks a day. I'm better off sticking with
24 my old switch.

25 And the question that you always want to ask

0534

1 yourself is at what point does it make more sense to,
2 looking forward, incur the purchase price of the new
3 switch in order to get those lower operating and
4 maintenance costs and at what point are you better
5 just sticking with your old assets.

6 Q. And your answer might -- if you were looking
7 at the next three years, the payback period might not
8 be worth it, but if you were looking at the next 10
9 years, and that's how long you thought the new switch
10 would last, maybe it would be?

11 A. Yeah, and the problem there is there's
12 another level of -- there's another question that
13 factors in. There's a well-known phenomenon in
14 industry called rational delay, and particularly in a
15 fast-moving industry like telecommunications, you
16 have to also be thinking about the fact that, five
17 years from now, even that new switch won't look too
18 pretty. So you might wait even longer than you
19 otherwise would to buy a new switch, because you
20 don't want to incur that interim sunk cost of a
21 technology that's going to be supplanted again two,
22 three years down the road.

23 Like when you have an old car and you see a
24 great new model come out and you think, Well, that's
25 a much more efficient car, I'm going to buy that

0535

1 hybrid, it will get me much better gas mileage, but
2 then you read about how, three years down the road or
3 two years down the road the hybrids are going to be
4 much, much better, they're going to be more reliable,
5 they're going to be even better gas mileage. You
6 hang on to to the old car during that interim
7 generation of technology and wait two more years.

8 That happens a lot in industry where
9 technology is moving quickly. So now, in particular,
10 where the question of switching technology is
11 certainly an open one and whether we're going to have
12 circuit switch or packet switch or some mix in how
13 things are going to be done into the future is an
14 open question, it's particularly rational to stick
15 with the existing technology, rather than to assume
16 that the new technology is going to be what is the
17 state of the art more than three years out or more
18 than some reasonably foreseeable horizon.

19 Q. All right. I don't know if I should
20 disclose the fact that I have a 1970 Volvo, but --

21 A. I drive a 1965 Ford.

22 Q. Well, this is telecom, though. Let's see.
23 I think my joke distracted me. Oh, are these kinds
24 of calculations and judgments that we've just been
25 talking about the kinds that are actually going into

0536

1 the model? Is the model -- and are the inputs making
2 this type of judgment, three years, five years,
3 replace, don't replace, that kind of thing?

4 A. Yes, now, the cost panel is going to be
5 better able to address these element-by-element, but
6 I can say what I do know is that this is exactly the
7 kind of thinking that goes into place when the
8 engineers are sitting down and deciding what to do
9 with the network over a planning period. The first
10 question is how long should the planning period be,
11 and it's actually -- turns out to be quite standard
12 in telecom, if you ask across a variety of sectors,
13 long distance carriers, cable operators, wireline
14 telephone providers, even the cellular guys, three to
15 five-year engineering planning periods are very
16 standard.

17 And one of the reasons is that that is a
18 period around which one can, with some reasonable
19 degree of certainty, see what the technological paths
20 will be. And one of the reasons that you don't
21 wholesale replace immediately, you know, Okay, we see
22 what things will be like for the next three years,
23 let's buy it and start replacing it right away, is a
24 recognition that the calculation says replace certain
25 things now, certain things later, and we may want to

0537

1 even delay a little bit more, not because we're
2 inefficient, but exactly the opposite. Things are
3 changing so fast, we don't want to strand costs of an
4 interim generation of technology.

5 And this is the kind of thinking that's
6 going on when you look at the fiber-copper mix or the
7 percentage of GR 303 interfaces that are in place in
8 the network. These are all things that are
9 calculated with an eye to what makes sense
10 economically insofar as we can reasonably predict the
11 technology path. That's exactly what's going on.

12 Q. Okay. I interrupted you when you were about
13 to go to a point two, and I don't know if you covered
14 it or not.

15 A. I was just going to go back and talk about
16 what the model does with respect to those poles and
17 rights of way around the lake getting to the state
18 capitol.

19 So modeling those going forward, what the VZ
20 Cost model asks and what the engineers sit down and
21 ask is what is the efficient technology for getting
22 that distribution plant from the central office to
23 the state capitol. Going forward, what is it that we
24 would put in place for upgrades for replacement plant
25 for new builds, and -- or you know, what is the way,

0538

1 would we go underground, would we go above ground,
2 what is the least-cost way. That's what we're going
3 to do going forward as we evolve the network, that's
4 why the network will look different going in the
5 future, even while a lot of the parameters stay
6 fixed.

7 But what the model is doing is assuming that
8 that better way of reaching the capitol is actually
9 in place, fully in place, not just on some
10 replacement posts or not just on some upgrade
11 sections of the network, but through the whole
12 network, and it takes the operating efficiencies of
13 that new plant and takes those into account, but what
14 it doesn't do is say, Well, knowing that technology
15 is going to change later, what are the higher costs
16 of capital and depreciation that would be in place if
17 we really were going to replace everything. So it
18 kind of gives you the benefits of these lower
19 operating and maintenance costs going forward without
20 the full up-front purchase cost and capital and
21 depreciation that would be needed over the planning
22 period to really do that.

23 Q. All right. I think that leads to my last
24 question. When you used the term mix and match a
25 couple times, once in a way to say that Verizon's

0539

1 model is actually conservative and underestimating
2 real costs because it was mixing and matching that
3 way, but then, in another place, Exhibit 2-T, page
4 three, on line 21, you said it's economically
5 incorrect to mix and match new supposedly more
6 efficient routes with the rights of way costs for
7 existing routes.

8 And maybe you can just clarify for me again
9 -- oh, well, first, why should a model mix and match
10 in the first place? It seems to me you would just
11 simply try to get it to be the most accurate you
12 could, but maybe sometimes you have to mix and match,
13 and if you do, it should be conservative, I think
14 that's what you were saying. But then why is this
15 other way of mixing and matching not a good way to
16 mix and match?

17 A. Yeah, let me clarify. I mean, if I were
18 sitting back, and I've done this with folks from
19 Verizon and said, Well, you know, a cold economic eye
20 cast on your model suggests that it's not an
21 efficient model because you are leaving some costs
22 out of it if we were really doing forward-looking
23 replacement of the network. What you guys should be
24 doing is not adding those costs on, because you're
25 not actually replacing the network; you're evolving

0540

1 the network, you're upgrading it, you're fixing it,
2 you're putting new technology in as you go forward
3 efficiently, but then what you should do is model not
4 -- I forget what the exact percentages are, but 54
5 percent copper, 46 percent fiber throughout the whole
6 network, but that mix where it's actually in place,
7 and then when it's all copper elsewhere in the
8 network, you should be modeling the costs based on
9 that. You should take the most accurate picture you
10 can going forward.

11 What Verizon has done is to say, Well, we're
12 going to be more aggressive than that. We're just
13 going to assume that the new technology is in place.
14 Why? Really because -- well, TELRIC, I think, has a
15 number of permissible interpretations, in many
16 states, and in some pronouncements by the FCC, but
17 not others, certainly, you can go back and forth
18 forever finding quotes on both sides of the issue,
19 the FCC has seemed to argue that the new technology
20 -- or certain states have said the new technology
21 must be put ubiquitously -- assumed to be
22 ubiquitously in place through the network.

23 So it's in an effort to be compliant not
24 with correct economic principle, but with aggressive
25 interpretations of TELRIC that I think Verizon has --

0541

1 I say conservatively -- just assumed that the going
2 forward mix of technology that's used for incremental
3 changes is, in fact, put throughout the network. And
4 that understates costs.

5 What I -- and the reason the mix and match
6 there is because it gives the benefits of that new
7 technology without what it would really cost to put
8 it all in place, the capital depreciation costs.

9 My concern with models like the Hatfield
10 model, the MSM model, the purely hypothetical models
11 that purport to construct a network based only on
12 existing wire locations, or wire center locations.
13 And you know, Dr. Tardiff, I know, will be here next
14 week and he has some very pointed things to say about
15 this, very detailed things to say about this.

16 But the problem with those models is they
17 assume a complete rebuild, but -- and assume the
18 lower operating costs of this completely efficiently
19 built network, but don't take into account the
20 consequences of one of the model's own assumptions.
21 The model's own assumption is regular entry by new
22 firms with the most efficient technology and a
23 periodic need to replace or to assume that you have
24 replaced all of your network plant.

25 Well, what happens in that case is that when

0542

1 you build a new network, if you are that hypothetical
2 new entrant, you're thinking, Well, down the road yet
3 another entrant's going to come in and make me
4 replace everything. I better make sure I've
5 recovered all my costs of this nice hypothetically
6 efficient network by the time that happens. So you
7 need very high costs of capital, because investors
8 are going to be very worried if investing in a
9 company that can be forced to leave costs on the
10 table down the road, and very high depreciation rates
11 embedded while you are the market leader to capture
12 the costs of building that network, because you know
13 three years from now someone else is going to come
14 in.

15 So if you're really going to have a model
16 that has this full replacements cost, you need to
17 incorporate -- and this is where I argued for
18 consistency -- not just the efficient operating and
19 maintenance costs of the new technology, and not even
20 just the purchase price, but what it will cost you to
21 raise the capital to buy that equipment and what kind
22 of depreciation rates you'll have to put over time,
23 put -- have to have over time, the short period of
24 time until someone else comes in and makes you
25 rebuild again.

0543

1 Q. And I'm following your point about
2 consistency, but in one way it sounds as if you're
3 saying, Well, if you're going to be unrealistic on
4 one assumption, you've got to be consistently
5 unrealistic on another assumption, but one way, it
6 sounds almost to me as if you're saying it's two
7 wrongs. I mean, that is, twice over, you're going to
8 assume that this network is replacing itself and
9 raising capital faster than it really will.

10 A. Yes.

11 Q. If that's the case, then I'm not sure -- it
12 seems like perhaps it's aggravating things.

13 A. Oh, no, I agree that it would be aggravating
14 things to -- I mean, in some sense, the hypothetical
15 model -- the hypothetical model, if it were done
16 right, according to its own assumptions on all cost
17 parameters, I think would generate extraordinarily
18 high costs and you'd run away from it and you would
19 -- I mean, you would say, Well, we don't want these
20 costs, because they're enormously high, if you really
21 take the model seriously.

22 Q. Or it's just not the way the real world is
23 going to work?

24 A. The bigger problem is it's just not the way
25 the real world works. And when Dr. Gabel asked me

0544

1 sort of what I might leave you with, you know, my
2 ultimate concern is that there is a real network
3 here. There is a real network with real engineering
4 plans that are, in fact, being implemented. And
5 nobody denies that there are serious evidentiary
6 questions of how to fill in the inputs of any model
7 you choose, but my argument is that the model should
8 be one that, as best as possible, reflects that real
9 network, that it reflects the actual facilities, the
10 actual plant, the actual routes that that network has
11 and will have going forward over the planning period.

12 The hard question of what switch prices to
13 use to base the forward-looking switch price on,
14 those are hard questions, but once we start with the
15 premise that we should have a real network and base
16 the forward-looking costs not on a model, because
17 that leads to all kinds of self-reinforcing problems,
18 but the network we have in place, then we can get
19 that at least knowing to what we're trying to value,
20 we're trying to value something that's really there,
21 and then we can fight about what the right price is
22 and the right valuation is.

23 CHAIRWOMAN SHOWALTER: All right. Thank
24 you.

25 THE WITNESS: Thank you, Commissioner.

0545

1 JUDGE MACE: We'll take a 15-minute recess.

2 (Recess taken.)

3 JUDGE MACE: Mr. Kopta has asked if he could
4 ask a few questions pertaining to the Commission's
5 questions, and I don't know that that's our typical
6 procedure, but --

7 CHAIRWOMAN SHOWALTER: Usually we go down
8 the line and then --

9 MR. KOPTA: Right. That was my
10 anticipation, is once the Commissioners were through,
11 then I would have a chance to follow up and then
12 they'd do redirect.

13 JUDGE MACE: Okay.

14 CHAIRWOMAN SHOWALTER: That's what we
15 usually do, so that you have the chance to hear all
16 of the questions before there's redirect.

17 MS. RONIS: Okay. He's already crossed,
18 though.

19 CHAIRWOMAN SHOWALTER: Yeah, but we
20 sometimes raise issues that, you know, haven't been
21 explored as much as you would have thought. So it's
22 just a way to have a complete ability for everybody
23 to get their questions out, but you get the last
24 chance.

25 MS. RONIS: Okay.

0546

1 JUDGE MACE: Go ahead, Mr. Kopta.

2 COMMISSIONER HEMSTAD: No.

3 JUDGE MACE: Oh, I'm sorry. I
4 misunderstood. I didn't realize you had questions,
5 Commissioner Hemstad.

6

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

8 BY COMMISSIONER HEMSTAD:

9 Q. Dr. Shelanski, I'd like to pick up and
10 pursue a bit further the inquiry of Dr. Gabel. And I
11 understand your comment with regard to his Exhibit
12 1200 that you don't know necessarily what's behind
13 these numbers. I can translate it into a
14 hypothetical, but summarizing what I understand he
15 was saying, the totaling the price for the port and
16 the Verizon's proposed statewide loop rate, we come
17 to a total of \$54 and change, with a retail price for
18 Verizon of \$30 for residential ISDN and \$50 for
19 business ISDN.

20 Put simply as a hypothetical, if those
21 element costs are correct, that obviously would
22 create a price squeeze that would make it impossible
23 for a competitor to compete, wouldn't it?

24 A. Well, not necessarily, because it -- the
25 theory of element pricing is that the element can be

0547

1 used to provide a number of services. Now, let's
2 take the case of -- now, let me be clear.

3 If Verizon were to lease a loop for higher
4 than the retail rate of the loop, and there were
5 nothing else you could do with the loop, you know,
6 there's voice grade services, that's what you get
7 over your loop, voice grade service is 20 bucks a
8 month and the wholesale price is 30 bucks a month, of
9 course there's a price squeeze there.

10 But when you have multiple services being
11 provided by a firm over a given set of assets, it's
12 often the case that the price of one of them does not
13 recoup any of the fixed costs or all of the fixed
14 costs of that element, and so the price is less than
15 what one would calculate as what's called the
16 stand-alone cost of providing that service.

17 And that's actually a fairly typical kind of
18 phenomenon in markets where firms have multiple
19 products, and especially where firms have both
20 regulated and unregulated products, some of which are
21 subject to competition, some of which are subject to
22 regulation.

23 Q. I understand. Okay. So I take it your view
24 is, then, that the loop, at least for an integrated
25 provider of services, is a shared cost with various

0548

1 services?

2 A. Yeah, I would have to learn -- I would have
3 to learn more about how integrated loop plant is done
4 in Washington and exactly how Verizon runs that
5 plant, but that would be my basic view, yes, that
6 it's used for a number of services, and the fact that
7 one of them is priced below the stand-alone cost is
8 neither surprising nor of concern to me, as an
9 economic matter.

10 Q. All right. I think you ended your
11 discussion with Dr. Gabel by saying the focus should
12 be on the element price, rather than the service
13 price. And I thought I understand you to say or I
14 understood you to say that various services of a
15 multi-service provider could be priced below cost,
16 even though, on an average basis, they'd be making a
17 net profit. Is that a fair summary of what you said?

18 A. Right. I mean, I would certainly be
19 concerned if any service was priced below the
20 short-run marginal cost, so to speak. I mean, that
21 is a matter for concern if it -- suppose that
22 multiple services are being provided by the element,
23 and yet there's one of them that is being priced at
24 below even the, you know, operating and maintenance
25 costs of providing the service, the power, everything

0549

1 else that's -- then I would be greatly concerned, but
2 as long as, in aggregate, those services are
3 recovering the cost, I wouldn't see any concern for a
4 predatory kind of behavior, and I would expect that
5 if Verizon was providing a regulated service and then
6 was also providing a service like ISDN, which is a
7 service that has alternatives, which is increasingly
8 subject to competition, not everywhere, but in a lot
9 of places, it would not be surprising for me to see
10 those services be ones that aren't recovering all of
11 their fixed costs.

12 Q. Okay. And I'm sure you would not consider
13 yourself an authority on, well, for example, state
14 law, but I propose to you that I understand
15 Washington State law requires, on the black, that the
16 pricing of a competitive service be priced above
17 cost. Would that change your answer at all?

18 A. I guess I would just need to know what they
19 mean by cost. And you know, this is a big debate.
20 In California, there are interpretations that it
21 means total cost. As a matter of federal law and
22 Supreme Court law, it's averaged variable cost. So I
23 guess I'd have to know what the state law on cost
24 was.

25 Q. I'll agree with you that there's plenty of

0550

1 debate on how you define cost.

2 A. Right.

3 Q. That's all I have. Thank you.

4 A. Thank you, sir.

5 COMMISSIONER OSHIE: No questions.

6 CHAIRWOMAN SHOWALTER: I just want to
7 explain to Ms. Ronis that Mr. Kopta's and others'
8 questions would be limited in scope to the issues
9 that we have raised, and the reason is that our
10 questions are really neither cross nor direct, but
11 the witness' answers sometimes have a strong element
12 of direct, in which case some kinds of cross is
13 desirable, and we have done it sometimes where you
14 would now go, but then that prompts more questions,
15 so --

16 MS. RONIS: I understand.

17 CHAIRWOMAN SHOWALTER: -- it seems to be a
18 good way to do it.

19 MS. RONIS: That's good to know. So that
20 going forward for this proceeding, it would be the
21 same rule?

22 CHAIRWOMAN SHOWALTER: Generally, that's
23 what we do, yes.

24 JUDGE MACE: Go ahead, Mr. Kopta.

25 MR. KOPTA: Thank you.

0551

1

2

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

3

BY MR. KOPTA:

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

Q. Dr. Shelanski, do you recall a discussion with Dr. Gabel in which you were talking about the lack of innovation when CLECs use UNEs from Verizon?

A. I was talking generally about, right, the lack of innovation -- comparative lack of innovation when firms use a common set of assets versus separate sets of assets.

Q. Well, let me ask you, and by way of clarification, would you agree with me that it is possible that a CLEC that leases an unbundled loop from Verizon, for example, but provides its own switching would still have the incentive to innovate with respect to its investment in the switching, even though it's using a loop from Verizon?

A. Yes, certainly, sure. I mean, the innovation incentive would go insofar as, you know, obviously within the technological constraints of having to interface with another piece of technology, absolutely.

Q. But let's assume a UNE-P situation. You understand what UNE-P is. Might it also be possible that the CLEC would seek to use capacities or

0552

1 abilities of a switch differently than Verizon to
2 innovate and to provide a service that would
3 distinguish it from the services that Verizon is
4 providing on a retail level?

5 A. Yeah, but at that very high level of
6 generality, one could imagine there's some scope for
7 innovation there. But the point is that, as a
8 comparative matter, it's a much narrowed scope
9 compared to if that CLEC were, you know, providing
10 its own facilities. And just by example, there's
11 only so much you can do with the capacities of, say,
12 Verizon's switch that -- there are only so many
13 parameters in which you might innovate.

14 If you have your own switch, your own
15 configuration of the network you can build, you might
16 do it very differently. I mean, even looking at some
17 of the hypothetical network models that have been put
18 forward, I mean, if really that is the way to go, if
19 those are innovative ways forward for building a
20 network, prices that induce the CLEC to use the
21 ILEC's network would be forestalling that -- or
22 artificially, let me be very clear, that were too low
23 that artificially induced the CLEC to use the ILEC
24 facilities would be forestalling the very innovation
25 that some of the hypothetical models claim is the

0553

1 correct way forward.

2 And sure, to the extent that a CLEC uses its
3 own switch and only leases the loop, that's better
4 than UNE-P from the standpoint of innovation. But,
5 you know, and even on UNE-P, innovative retailing,
6 maybe even innovative ways of trying to use -- trying
7 to provide various capabilities, various interfaces,
8 these all might be possible, but the more you use the
9 existing plant of the ILEC, the less scope there is,
10 I think, as a common sense matter and as an economic
11 matter for the competitor to innovate.

12 MR. KOPTA: Thank you. Those are all my
13 questions.

14 JUDGE MACE: Ms. Ronis.

15 MS. RONIS: No redirect.

16 JUDGE MACE: I think there's an outstanding
17 AT&T cross exhibit for this witness.

18 MR. KOPTA: There is, and unfortunately, my
19 usual habit is to forget to move to admit them. I
20 would move for admission of Exhibit 3.

21 JUDGE MACE: Any objection? I'll admit that
22 exhibit. Thank you, Dr. Shelanski. You're excused.

23 THE WITNESS: Thank you, Your Honor.

24 JUDGE MACE: Well, we're a little behind,
25 based on the sort of proposed schedule we had, but

0554

1 the next witness is Dr. VanderWeide.

2 Whereupon,

3 DR. JAMES H. VANDERWEIDE,

4 having been first duly sworn by Judge Mace, was

5 called as a witness herein and was examined and

6 testified as follows:

7 JUDGE MACE: All right. Please be seated.

8 Mr. Berry, are you going to be introducing this

9 witness?

10 MR. BERRY: Yes, Your Honor.

11 JUDGE MACE: All right. Everybody ready?

12

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

14 BY MR. BERRY:

15 Q. Dr. VanderWeide, would you please state your

16 full name and your business address?

17 A. Yes, my name is James H. VanderWeide, and my

18 business address is 3606 Stoney Brook Drive, Durham,

19 North Carolina.

20 Q. Dr. VanderWeide, did you submit prefiled

21 testimony in this proceeding?

22 A. Yes, I did.

23 Q. And does that include direct testimony,

24 dated June 26th, 2003?

25 A. Yes.

0555

1 Q. And do you have that in front of you?

2 A. Yes, I do.

3 Q. Was that testimony prepared by you or under
4 your direct supervision?

5 A. Yes, it was.

6 Q. And does it include exhibits?

7 A. Yes, it does.

8 Q. And for the record, those -- the direct
9 testimony and the attached exhibits are numbered as
10 Exhibits 101-T, 102, 103, and 104. Dr. VanderWeide,
11 did you also file reply testimony in this proceeding?

12 A. Yes, I did.

13 Q. And is that testimony in front of you?

14 A. Yes, it is.

15 Q. And was that testimony prepared by you or
16 under your direct supervision?

17 A. Yes.

18 Q. For the record, that testimony has been
19 numbered as Exhibit 105-TC.

20 JUDGE MACE: The C designation is for
21 confidential.

22 MR. BERRY: I see. Thank you.

23 Q. And Dr. VanderWeide, did you also file
24 rebuttal testimony in this proceeding on May 12th,
25 2004?

0556

1 A. Yes, I did.

2 Q. And was that testimony prepared by you or
3 under your direct supervision?

4 A. Yes.

5 Q. And did that include exhibits?

6 A. Yes, it did.

7 Q. For the record, the rebuttal testimony has
8 been numbered 106-T, 107, 108, and 109. Dr.
9 VanderWeide, with respect to the three pieces of
10 testimony that you have submitted in this matter, do
11 you stand by the questions and the answers that you
12 provided?

13 A. Yes, I do.

14 Q. And if you were to ask those same questions
15 today, would you provide the same answers?

16 A. Yes, I would.

17 MS. RONIS: Your Honor, there were two
18 different rounds of errata on Dr. VanderWeide's
19 testimony. They both relate to his rebuttal
20 testimony. I don't know if you wanted to mark them
21 now. One was filed with the Commission yesterday.

22 JUDGE MACE: That errata has been
23 incorporated in the books that the Commissioners
24 have. So what was provided today has not.

25 MS. RONIS: Okay. So we don't mark those as

0557

1 separate exhibits?

2 JUDGE MACE: You don't have to mark anything
3 as separate exhibits. If it is incorporated into the
4 exhibit, you can provide the document, the page that
5 you're going to ask to be incorporated in place of
6 another page.

7 MS. RONIS: We do have copies of --

8 JUDGE MACE: I'm assuming, and I've reviewed
9 the filing, that it is mainly typos and slight word
10 changes.

11 MS. RONIS: Correct. And the one today was
12 to address a concern AT&T had about us not
13 designating enough of his testimony as AT&T
14 proprietary, so we replaced a page and made the AT&T
15 proprietary bracket cover more information.

16 JUDGE MACE: If you could supply us with the
17 changed pages.

18 MS. SMOTHERGILL: There's a public and a
19 proprietary version for each.

20 JUDGE MACE: All right. And you have one
21 for each of the Commissioners; correct?

22 MS. SMOTHERGILL: Sure.

23 CHAIRWOMAN SHOWALTER: What exhibit is this?

24 JUDGE MACE: This is 106-T. The upper
25 right-hand designation is not correct.

0558

1 CHAIRWOMAN SHOWALTER: We need one more set.

2 JUDGE MACE: I just want to make clear for
3 the record that you have a designation of JHV-9 in
4 the upper right corner, and that's not the correct
5 designation by my list of exhibits, but the actual
6 number for this exhibit, for this rebuttal testimony
7 is 106-TC, and so it would replace pages in 106-TC.
8 I don't think I -- did you provide actual pages?

9 MS. SMOTHERGILL: No, we just have the
10 correction.

11 JUDGE MACE: Okay. Thank you. Everybody
12 have in hand the corrections? Anything else? Do you
13 offer these into evidence at this time?

14 MR. BERRY: Yes, we do, Your Honor.

15 JUDGE MACE: Is there any objection to the
16 admission of proposed 101-T through 109?

17 MR. KOPTA: No objection.

18 CHAIRWOMAN SHOWALTER: I'm just going to
19 caution -- usually we actually go to the testimony
20 and hand-write the difference or we get a page that
21 has the difference so that we don't make mistakes in
22 dealing with confidential material, so I would
23 suggest that if anyone is going to ask about these
24 portions or if you hear us about to ask about these
25 portions later on in the books that we've already

0559

1 had, just warn us.

2 JUDGE MACE: I heard no objection to the
3 admission of the exhibits. Thank you. Do you tender
4 the witness for cross-examination?

5 MR. BERRY: Before that, Your Honor, we'd
6 ask Dr. VanderWeide to briefly summarize the
7 testimony and recommendations that he's made in this
8 proceeding.

9 JUDGE MACE: Dr. VanderWeide, I'm going to
10 be timing you. Do you want me to give you a little
11 warning 15 seconds ahead of time, if that's
12 necessary?

13 THE WITNESS: That would be fine.

14 JUDGE MACE: All right. I'll do that.

15 THE WITNESS: I have made some effort to
16 keep it under three minutes, so I believe it will do
17 that.

18 JUDGE MACE: Go ahead.

19 THE WITNESS: Okay. I began my appraisal of
20 the weighted average cost of capital in this
21 proceeding by considering the basic economic
22 principles of UNE rate-making, as enunciated by the
23 FCC in the Local Competition Order and the Triennial
24 Review Order.

25 Basically, the FCC has mandated that the UNE

0560

1 cost of capital be based on forward-looking economic
2 costs rather than historical or embedded costs, that
3 it reflect the risk of operating in
4 telecommunications markets with facilities-based
5 competition, that it provide incentives for
6 investment in the network and that it provide an
7 opportunity for Verizon NW to recover the costs it
8 incurs in providing, on a forward-looking basis,
9 UNEs, including its cost of capital.

10 It's my belief that my 15.98 percent
11 recommended cost of capital is the only cost of
12 capital in this proceeding that satisfies the FCC's
13 basic economic principles of UNE rate-making. In
14 particular, my cost of capital reflects the market
15 cost of capital of comparable risk companies
16 operating in competitive markets. It recognizes the
17 competitive and regulatory risks of investing in
18 network facilities under the TELRIC standard, and it
19 allows Verizon NW and competitors a reasonable
20 opportunity to earn their forward-looking economic
21 cost of providing service.

22 In contrast, the other parties' cost of
23 capital recommendations are based on their
24 assumptions that Verizon NW is a low-risk monopoly
25 provider of UNE service, and that Verizon NW does not

0561

1 face any risk that it will not recover its costs
2 under the TELRIC standard.

3 Their cost of capital recommendations would
4 provide no incentives for either Verizon NW or the
5 CLECs to make investments in network facilities. The
6 reasonableness of my cost of capital recommendation
7 is further confirmed by comparing my recommendation
8 to the cost of capital that competitive companies,
9 such as AT&T, actually use to make internal
10 investment decisions in local network facilities.

11 This comparison is especially important
12 because AT&T operates in a competitive market, and
13 the Triennial Review Order requires that the cost of
14 capital reflect the risks of a competitive market.

15 AT&T --

16 JUDGE MACE: Fifteen seconds.

17 THE WITNESS: AT&T's compelled response
18 indicates that my 15.98 percent cost of capital
19 recommendation is a conservative estimate of the cost
20 of capital competitive companies use to make network
21 investment decisions.

22 MR. BERRY: We tender the witness for cross.

23 JUDGE MACE: Thank you. Mr. Kopta.

24 MR. KOPTA: Thank you, Your Honor.

25

0562

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

2 BY MR. KOPTA:

3 Q. Good afternoon, Dr. VanderWeide.

4 A. Good afternoon.

5 Q. I will try not to mispronounce your name.

6 A. You did an excellent job.

7 JUDGE MACE: Of mispronouncing it?

8 THE WITNESS: No, I didn't mean that.

9 Q. Since we haven't met before, I was guessing
10 at the pronunciation. As you can imagine, Kopta is
11 not the most common name, either, so I'm particularly
12 sensitive to mispronunciations.

13 A. I appreciate the care you took to get it
14 right.

15 Q. Okay. If you would, please, turn to your
16 direct testimony, which is Exhibit 101-T,
17 specifically page six. And on page six, I would like
18 you to look at the sentence -- actually, the two
19 sentences that begin on line eight. And if I may
20 summarize, I understand your testimony to be that if
21 the cost of capital input in the UNE cost studies
22 that this Commission approves is less than the amount
23 that you recommend, that incumbents will have no
24 incentive to invest in their telecommunications
25 networks. Is that accurate?

0563

1 A. It's partially accurate. The economic
2 signals that I'm referring to would refer to both
3 incumbents and CLECs, and so not only would it not
4 provide an incentive for the incumbents to invest in
5 their network, but it wouldn't provide any incentive
6 for CLECs to invest in network facilities. They
7 would have an incentive instead to lease UNEs from
8 incumbents, even though they perhaps could be more
9 efficient providers if they provided UNE service on a
10 facilities-based basis.

11 Q. But Verizon, regardless of what happens in
12 this proceeding, would still have an incentive to
13 invest in its network to serve its retail customers,
14 wouldn't it?

15 A. That would -- that is beyond the scope of my
16 testimony, because it relates to -- in this
17 proceeding, because it relates to whether their rates
18 are compensatory for retail service. And I haven't
19 made -- I'm not testifying on that subject in this
20 proceeding.

21 Q. Well, but regardless of the economic
22 incentives that they might have based on that sort of
23 analysis, isn't it your understanding that, to
24 satisfy their obligations to serve their customers in
25 the state of Washington, that they would continue to

0564

1 have an incentive to invest in their network?

2 A. There -- as I understand your question,
3 there would be two parts to the question. One would
4 be kind of their regulatory obligations, which I am
5 not testifying to, because I'm not an attorney. I'm
6 testifying with regard to economic incentives, apart
7 from any regulatory obligations that they might have.
8 And as long as Verizon does not have an opportunity
9 to recover its investment and expenses, including its
10 cost of capital, it has no incentive -- economic
11 incentive to invest in the network.

12 Q. Is Verizon investing in its network as we
13 sit here today?

14 A. Verizon is maintaining its network, but it
15 has significantly decreased its investment in the
16 network over the last three years.

17 Q. But it is continuing to invest in its
18 network currently?

19 A. It's continuing to invest, but at a
20 significantly reduced level from what it was in the
21 past.

22 Q. And you ascribe that to the current cost of
23 capital for UNEs?

24 A. I would certainly ascribe part of it to the
25 fact that Verizon -- well, the fact that Verizon is

0565

1 not earning its cost of capital. And part of the
2 reason for that would be because UNE rates have been
3 set below the cost of providing UNE service.

4 Q. Switching to CLECs, there are CLECs in the
5 state of Washington that have built their own
6 networks, are there not?

7 A. There certainly are cable providers that
8 have -- that have made investments to provide
9 telecommunications service, and it's my
10 understanding, although I'm not testifying to the
11 actual level of competition, that there is some
12 facilities-based competition from CLECs, as well.

13 My testimony is that, however, one doesn't
14 have to look to the actual level of competition,
15 because the Triennial Review Order requires that the
16 cost of capital be based on the assumption that the
17 market is competitive.

18 Q. Right, and that's not the particular angle
19 that I'm working at here.

20 A. Okay.

21 Q. It's just that -- wouldn't you agree with me
22 that CLECs have a continuing incentive to construct
23 their own networks, given that they have been doing
24 that, even when the cost of capital per UNEs is set
25 at the 9.76 percent that the Commission established

0566

1 in the last case?

2 A. Well, I guess, to be specific, certainly
3 there's one CLEC that would not have an incentive
4 that I know of. I don't know what other CLECs
5 consider their cost of capital to be, but AT&T
6 certainly would not have an incentive, because they
7 have indicated that their cost of capital is above.

8 JUDGE MACE: Well, I just want to jump in
9 here, just so that you don't say a specific number,
10 okay.

11 THE WITNESS: I had no intention to say a
12 specific number.

13 JUDGE MACE: It was confidential and I just
14 wanted to make sure we didn't get into that problem.

15 THE WITNESS: Right.

16 CHAIRWOMAN SHOWALTER: So are all the
17 witnesses aware of what is and isn't confidential?
18 In general, if it's not confidential, we don't want
19 it to be confidential, or we like to get stuff out on
20 the record, but if it is confidential, then either
21 don't mention the number and just be qualitative, or
22 if it's important, point us to a number and then we
23 can understand what you mean.

24 THE WITNESS: Yes, that's an excellent idea.
25 The number is discussed in my testimony near the end

0567

1 of the testimony, of my rebuttal testimony, that is.

2 JUDGE MACE: I think it's on page 92.

3 THE WITNESS: Okay. Yes, starting on page
4 89 of my copy of the testimony, I have a section
5 entitled Tests of Reasonableness.

6 CHAIRWOMAN SHOWALTER: If you can point us
7 to a line number, a page and line number?

8 THE WITNESS: Yes, on my copy, it's page 89,
9 line -- starting at line nine, and going on down
10 through the end of that page.

11 Q. Are you aware that AT&T has constructed a
12 network in the state of Washington?

13 A. I haven't studied what AT&T has actually
14 done.

15 Q. Okay. Would you accept, subject to check,
16 that AT&T has installed some of its own switches, as
17 well as fiberoptic rings in the greater Seattle
18 metropolitan area, as well as in the Vancouver,
19 Washington metropolitan area?

20 A. I would accept that, subject to check, and I
21 would assume, then, that they would expect that they
22 could earn a return exceeding their cost of capital,
23 which is -- which I've indicated is on page 89 of my
24 testimony, that they would -- if they -- certainly,
25 in that instance, they must have thought if they

0568

1 could build -- if they could install a switch, that
2 there would be particular customers for which they
3 could earn a return greater than their cost of
4 capital.

5 As a general matter, however, if they can
6 obtain UNEs for all customers that reflects a cost of
7 capital that's less than their own cost of capital,
8 that factor alone would give them an incentive to
9 lease UNEs. So there must have been other things
10 that weren't equal than the cost of capital.

11 Q. If you would, please, turn to page 29 of
12 Exhibit 101-T.

13 JUDGE MACE: Which page was it, Mr. Kopta?

14 MR. KOPTA: Twenty-nine.

15 JUDGE MACE: Thank you.

16 Q. Specifically the sentence that begins on
17 line 19, which I will read. Indeed, many of Verizon
18 NW's competitors are in the process of developing
19 their own facilities for providing local exchange
20 service to Verizon NW's most profitable customers.

21 A. Yeah, I'm sorry, I was still looking at the
22 rebuttal testimony that we had just referred a page
23 to, so I'm going to turn to my direct testimony. It
24 was page 29?

25 Q. Line 19.

0569

1 A. Nineteen, okay. Yes.

2 Q. Do you know who those competitors are?

3 A. I have -- my analogy is based on the
4 testimony of Company Witness West, and that would be
5 my knowledge base.

6 Q. So you don't have any independent knowledge
7 of the level of competition that's developing in
8 Washington?

9 A. No, I do not.

10 Q. Now, if you would turn to page 36 of Exhibit
11 101- T. And I'm really referring pretty much to the
12 first full Q&A on that page. In both the question
13 and the response, you use the term unregulated
14 companies. And by unregulated companies, do you mean
15 competing local exchange carriers, or CLECs?

16 A. I was referring more generically here to any
17 unregulated company operating in a competitive
18 market, not just CLECs. Namely, those whose price --
19 who are free to determine their prices for services
20 in competitive markets.

21 Q. But you would include CLECs within
22 unregulated companies, as you use that term?

23 A. Yes.

24 Q. Okay. Are you aware that this Commission
25 regulates CLECs?

0570

1 A. Well, then, I guess they -- to the extent
2 they're regulated, then they wouldn't be included in
3 that term. My discussion here was a generic
4 discussion of all companies that operate in
5 competitive markets that are unregulated.

6 Q. So then, as you use this term, CLECs would
7 not be included?

8 A. Well, to the extent that they're regulated,
9 this wouldn't be -- this wouldn't reflect their --
10 necessarily reflect their behavior.

11 Q. Well, let me see if I can define the term a
12 little bit better than unregulated. It seems to me
13 that you're using this term in a way that means that
14 the company has the freedom to set its prices as it
15 chooses, even under whatever regulation it might be
16 subject to?

17 A. Yes, yes.

18 Q. Okay.

19 A. And is that the extent that you were also
20 referring to in your question of me?

21 Q. Well, I was being a lawyer and, you know,
22 doing the regulated, what it means, but, you know,
23 trying to understand what you're meaning by your
24 testimony.

25 A. All right. It had been my understanding

0571

1 that CLECs' prices were not regulated, that CLECs
2 could charge their own prices.

3 Q. Within certain limits, that's certainly the
4 case, and let's use that as an assumption. Are you
5 aware that Verizon has the same opportunity to seek
6 what is called in this state competitive
7 classification for some of its services in which it
8 would have the same or similar freedom as CLECs to
9 set prices?

10 A. I'm sure it has the opportunity to seek
11 competitive status. It currently -- the current
12 situation is that it does not have competitive status
13 for all its services and certainly it is -- its UNE
14 rates are regulated, and those are the particular
15 rates that I'm estimating the cost of capital for.

16 So it's the regulated UNE rates that I'm
17 referring to and comparing those to a situation where
18 a company operates in a competitive market, but its
19 prices are not regulated.

20 Q. Do I understand your testimony at this point
21 to be that competitors have the ability to charge
22 higher prices for services than Verizon because of
23 the regulatory constraints that Verizon is under?

24 A. No. My testimony at this point is simply to
25 indicate that companies in competitive markets face

0572

1 the risk that they won't recover their cost of
2 capital, that they'll earn a return that's less than
3 their cost of capital, but unlike Verizon operating
4 under TELRIC regulation, they also have a very
5 significant opportunity to earn a return that's
6 greater than their cost of capital. Indeed, they
7 won't make an investment unless, on average, they
8 expect a return, to earn a return on their investment
9 that's greater than the cost of capital, and they
10 certainly would reflect their cost of capital and
11 their depreciation rates in their prices, reflect the
12 risks of operating in a competitive market in
13 choosing their cost of capital and depreciation that
14 they use to set prices.

15 Under the TELRIC standard, however, Verizon
16 NW does not have an opportunity to earn more than its
17 cost of capital, but it has a very significant
18 opportunity, almost a certainty, of earning less than
19 its cost of capital, and that is because, under the
20 UNE regulation, rates are supposed to reflect the
21 cost of the most efficient technology, and yet -- and
22 rates are reviewed more often than the depreciation
23 life of the assets.

24 So to be particular, if assets are
25 depreciated over a period of, say, 17 or 18 years,

0573

1 which they are, and Verizon makes an investment in a
2 new network, and at the beginning its rates are just
3 sufficient to cover all of its costs over a 17-year
4 period, but then after five years, let's say, or six
5 years, its UNE rates are reset to reflect lower costs
6 of a new technology, it will have no opportunity to
7 recover the costs and earn a fair rate of return on
8 the investment it made when rates were first set.

9 Q. Well, as an economic matter, a company in a
10 competitive market is not necessarily free to charge
11 prices, whatever prices it wants to ensure that it
12 recovers its cost of capital, is it?

13 A. It is -- it is not necessarily free to set
14 prices, but it is free, when it expects prices to not
15 be sufficient to cover its cost of capital, to not
16 make any investments or to not enter that market,
17 whereas it's assumed in the -- under the TELRIC
18 standard that Verizon will construct the network
19 that's sufficient to serve the entire demand, and it
20 doesn't have a choice of constructing that network.

21 It will construct that network for the
22 purpose of calculating UNE prices on a
23 forward-looking basis that will serve the entire
24 demand for service and yet, under the TELRIC
25 standard, it doesn't have an opportunity to recover

0574

1 its cost of capital.

2 Q. Let me ask you a little bit more
3 specifically. Would you agree with me that CLECs, in
4 pricing their services, their retail services in
5 Washington, in Verizon's service territory, would be
6 constrained by the retail prices that Verizon charges
7 for the same or comparable services?

8 A. They would undoubtedly -- yes, I would agree
9 with you. They would undoubtedly be constrained by
10 that. And in situations where prices are such that
11 they will not earn a return that's greater than their
12 cost of capital, they won't make any investments,
13 which is an opportunity that, under the TELRIC
14 pricing, Verizon doesn't have.

15 Q. If you would, please, turn to page 48 of
16 Exhibit 101-T, specifically with the testimony that
17 begins on line 20, in which you state that in their
18 eagerness to promote competition for local exchange
19 service at the residential level, regulators have
20 generally set rates for unbundled network elements
21 based on forward-looking economic cost studies that
22 include -- and you list several things on the bottom
23 of this page and the following page.

24 My question is whether you include this
25 Commission among the regulators to which you refer in

0575

1 your answer?

2 A. Yes.

3 Q. Do you know what the current statewide
4 averaged loop rate is for Verizon, as established by
5 this Commission?

6 A. No, I don't.

7 Q. Would you accept, subject to check, that it
8 is a little bit less than \$24 a month?

9 A. Subject to check. I haven't studied it.

10 Q. Okay. Do you know what the residential rate
11 is in Verizon's service territory?

12 A. No, I don't, but I do understand that
13 residential rates have generally been subsidized from
14 intrastate access rates, and that -- and from other
15 services, and that residential rates have generally,
16 as a matter of history in the telecommunications
17 industry, been provided at below-cost rates. That's
18 one of the things that happens when you introduce
19 competition in a world where you have previously
20 subsidized certain services, is you get distortions.

21 Q. Would you accept, subject to your check,
22 that the residence rate that Verizon charges is
23 approximately \$13 a month?

24 A. I would, and I would conclude from that that
25 residential rates are significantly below the cost of

0576

1 providing service, subject to the -- to the
2 qualification that Dr. Shelanski discussed, and that
3 is that it's difficult to compare rates for UNEs with
4 rates for services, because UNEs are based on
5 forward-looking economic cost, and that that loop,
6 say, can be used to provide more than one service,
7 not just local residential service, but in the past
8 it could be used to provide toll service, both
9 intrastate and interstate toll service.

10 And so the real question for a CLEC is not
11 whether the UNE loop compares favorably with the
12 retail rate, the monthly retail rate for local
13 exchange service, but whether you can provide a
14 bundle of services over that UNE loop, including toll
15 services, which would allow you to make a profit when
16 you purchase the UNE loop at cost.

17 Q. Are you aware of any CLECs providing
18 residential service in Verizon's service territory in
19 Washington?

20 CHAIRWOMAN SHOWALTER: Can we just interrupt
21 a minute? We have a note from listeners on the
22 conference bridge to say that the witness is not
23 using the microphone. I think we can hear you
24 because your voice carries, but it needs to carry
25 right into the microphone.

0577

1 THE WITNESS: Has it been turned off?

2 CHAIRWOMAN SHOWALTER: The red button should
3 be up.

4 THE WITNESS: Up, okay. It's now up.

5 JUDGE MACE: And you need to speak directly
6 into the microphone.

7 CHAIRWOMAN SHOWALTER: Yeah, stay fairly
8 close to the microphone. And listeners, we are
9 sorry.

10 MR. KOPTA: We now return to our regularly
11 scheduled program.

12 COMMISSIONER HEMSTAD: Would the witness
13 repeat all of his answers?

14 JUDGE MACE: Oh, dear.

15 MR. KOPTA: As long as it doesn't come out
16 of my cross estimate.

17 Q. I will repeat the question. Are you aware
18 of any CLECs that are currently providing residential
19 service in Verizon's service territory in Washington?

20 A. As I've indicated earlier, I haven't done a
21 study of CLECs who provide residential service in
22 Verizon's territory.

23 Q. Okay. Now I want to turn to what I believe
24 you call, but you can correct me if I'm wrong, a
25 cancellable lease concept that you discuss throughout

0578

1 your testimony.

2 A. Yes.

3 Q. Would you agree with me that that concept
4 also applies to Verizon retail customers, as well as
5 to UNE customers?

6 A. It does apply to retail customers. However,
7 in the past, Verizon was the primary provider of
8 retail service, so that, to the extent that a
9 customer had the option to leave if they moved to
10 another state, for instance, it was possible that
11 another customer could take their place. That is
12 becoming less and less of a reality. In fact, the
13 reality is more that customers have an opportunity to
14 obtain their service from somewhere else. So to that
15 extent, in the future, as opposed to when retail
16 rates were set in the past, it will become an issue
17 in retail rate-making, as well.

18 Q. And indeed, under the full facilities-based
19 competition assumption that you've been operating
20 under in your testimony, it would be more likely, to
21 the extent that competition is that developed, that
22 retail customers would have a choice and could very
23 well choose to cancel their lease with Verizon and
24 take the service from another provider?

25 A. Yes, and to that extent, retail service will

0579

1 tend to have more and more of the same risks as UNE
2 service.

3 Q. And I'm going to present two scenarios to
4 you. In the first, the customer decides to take
5 service from a Verizon -- a customer that's currently
6 taking service from Verizon decides to take service
7 from a competing provider, and the competing provider
8 leases one or more UNEs from Verizon in order to
9 serve that customer.

10 In that scenario, Verizon would still be
11 generating revenues from facilities in which it has
12 invested to serve that customer; correct?

13 A. It would be generating revenues, but it
14 would be generating significantly less revenues, but
15 its costs would remain the same. So that its return
16 on its investment would have gone down very
17 significantly and perhaps become negative because its
18 costs are fixed, but it now has less revenues.

19 Q. Well, not all of its costs would remain the
20 same, would it? I mean, there would be some savings
21 in retailing costs, for example?

22 A. Well, you know, I've always been kind of
23 skeptical about that, because although competition
24 supposedly leads to a savings in retail costs, in
25 fact, what we notice is that there's more retail

0580

1 costs in a competitive environment.

2 AT&T ought to be, if anyone is aware of it,
3 AT&T ought to be aware that when MCI and Sprint
4 started to offer long distance service, the cost of
5 retailing went way up. So not only are the network
6 costs fixed, but the marketing costs actually go up,
7 as well.

8 Q. Well, let's take my second scenario, which
9 is the customer formerly served by Verizon takes
10 service from a provider that doesn't use Verizon
11 UNEs, but uses solely its own network.

12 In that scenario, Verizon would generate no
13 revenues from the facilities that it invested in to
14 serve that customer, would it?

15 A. That's correct. That doesn't mean that
16 prices were -- UNE prices were set correctly. It
17 just means that their revenues would be even less in
18 that facilities-based case.

19 Q. And as an economic matter, would Verizon
20 rather have the scenario where it's selling UNEs,
21 even if they're below cost, to the CLEC to serve that
22 customer, or would it prefer to have the customer
23 leave the network all together and have those
24 facilities lie unused?

25 A. There's a third alternative, and the third

0581

1 alternative is that Verizon would prefer that UNE
2 rates were set to recover their full economic cost,
3 including their cost of capital.

4 Q. Well, that's an interesting third
5 alternative, although I didn't present it to you.
6 Are you saying that you could not give an answer
7 between the two alternatives that I gave you, which
8 would be preferable for Verizon?

9 A. Well, if -- let me see if I understand the
10 question. If you're asking would you prefer to -- if
11 you're going to lose money anyway, would you prefer
12 to lose less money than more, I guess you would
13 prefer to lose less than more, but the third
14 alternative is that you at least break even, and
15 that's what I thought was one of the requirements of
16 the TELRIC standard.

17 Indeed, the FCC reiterated, in its notice of
18 proposed rule-making, the standard it had already set
19 in the Local Competition Order is that UNE rates are
20 supposed to provide an opportunity for the incumbent
21 LEC to recover its investment costs, including its
22 cost of capital.

23 Q. If UNEs are priced below cost, wouldn't that
24 make the CLEC less likely to cancel its lease with
25 Verizon?

0582

1 A. Yes.

2 Q. And if those prices were raised to reflect
3 the cost of capital that you're recommending, as well
4 as some other things that Verizon has proposed,
5 wouldn't CLECs be more likely to cancel their lease?

6 A. Yes, they would be more likely to cancel
7 their lease, but that isn't the only risk that
8 Verizon faces. The risk we're talking about is the
9 risk that, when they make an investment, they will
10 not be able to recover their cost. And in the first
11 instance that you talked about, where prices -- UNE
12 prices were below the cost of providing service, they
13 were guaranteed not to recover their cost and, hence,
14 their risk of losing money was very great and they
15 had no incentive to make an investment.

16 It doesn't help the company and it doesn't
17 reduce risk to say let's lower UNE rates even further
18 so that you lose more money, because at least the
19 AT&T and the other CLECs won't have an incentive to
20 leave the network. That's not a help.

21 If you're losing money, the alternative is
22 -- the optimal strategy, from the company's point of
23 view, is not to make any investments in the network,
24 and society would not be benefited by that, nor would
25 the CLECs, nor would the ILECs.

0583

1 Q. And I understand that that's your position.
2 What I'm focusing on, however, is the cancellable
3 lease concept, which I believe is not tied to the
4 other principles you were just discussing, but is
5 instead based purely on the risk that a company faces
6 that a customer, whether it's a UNE customer or
7 retail customer, can simply cancel its lease at any
8 time and no longer obtain the service or the UNE. Am
9 I correct that that principle does not stand alone?

10 A. No, you're not correct. It has to be
11 considered in the context of the TELRIC standard,
12 which refers to making a forward-looking investment
13 in a network to provide telecommunications service.
14 And so the UNE cost models are based on the
15 assumption that you have to build the network. You
16 have to build a network that's sufficient to serve
17 all the demand.

18 And the risk is, on a going forward basis,
19 if you make that investment, you might not earn a
20 return that allows you to recover your cost,
21 including your cost of capital. If you -- there are
22 several ways that that can occur, that you wouldn't
23 earn a return, that allows you to recover your cost
24 of capital. One is that rates would be set below the
25 cost. That would guarantee that you won't earn the

0584

1 cost of capital, and that would be the greatest risk.
2 Another is that you initially set rates in line with
3 the TELRIC standard, which is the environment that I
4 was considering. You initially set rates that
5 seemed to allow the company to recover its costs, but
6 then, because you either re-set rates before the
7 network was fully depreciated or the CLECs cancelled
8 their lease before the network was fully depreciated,
9 the rates, in fact, did not allow the company to
10 cover its cost.

11 So we began with an environment where the
12 rates seemed to be set under the TELRIC standard to
13 recover -- allow them to recover their cost, but
14 then, because of the cancellation or because of rates
15 being reset on the basis of a new technology prior to
16 the full recovery of the network, they, in fact, were
17 not able to recover their cost.

18 Q. Let me see if I'm understanding what you're
19 saying, or maybe just asking the question a little
20 bit differently. You've proposed a 12.03 percent
21 cost of capital before the risk additur; is that
22 correct?

23 A. Yes.

24 Q. So if the Commission were to adopt that
25 12.03, would that recover Verizon's cost of capital

0585

1 if the -- if you take the cancellable lease concept
2 out of the equation, if it was no more likely that
3 the CLEC would cancel its lease after that increase
4 than it is as we sit here today?

5 A. Maybe the best way to answer that is to --
6 is to emphasize that, unlike rate of return
7 regulation, which allows the company to recover its
8 historical cost, TELRIC regulation is based on
9 forward-looking economic cost. And so if the company
10 builds the network that's envisioned in TELRIC cost
11 studies on a forward looking basis and that network
12 has a life, an expected life, let's say, of 17 years,
13 and if you can now sign up customers for a 17-year
14 term at the rates that were set initially, and rates
15 don't change, you would be able to recover your
16 costs.

17 If, however, rates are allowed to change
18 downward as they are under the TELRIC standard
19 because of a new lower-cost technology or if
20 customers aren't locked in for the full 17 years of
21 the life of the network, then you will not recover
22 your costs.

23 So there are two scenarios in which you
24 won't recover -- you won't ever do better than
25 recover your costs, but you could do significantly

0586

1 worse. One is if rates are reset downward before the
2 network is depreciated, and two is if you don't serve
3 100 percent of the demand, which was the basic
4 assumption on which rates were set.

5 Q. Well, let's assume that the Commission does
6 establish UNE rates using your full recommended cost
7 of capital. As I understand it, that would stimulate
8 investment by CLECs in their own networks; is that
9 correct?

10 A. Yes.

11 Q. Okay. And if that were to happen, then
12 wouldn't you expect that CLECs that are currently
13 leasing UNEs from Verizon would cancel their leases
14 and use their own network facilities?

15 A. Some of those CLECs may use their own
16 facilities and, from an economic standpoint, that
17 would be absolutely fine. That's what UNE rates are
18 designed to do, is to encourage the most efficient
19 provider to provide telecommunications service. So
20 if the CLECs can do it at a lower cost, they should
21 provide -- if they can provide facilities-based
22 service at a lower cost, they should do it. And
23 society ought to be happy about that. If, however,
24 we set UNE rates below the cost of providing service,
25 and specifically with regard to my testimony, if we

0587

1 set the cost of capital so that we don't reflect the
2 risk, the regulatory risk of the TELRIC standard,
3 then there won't be any incentive at all for CLECs to
4 provide -- to become facilities-based providers even
5 if they are more efficient, and there won't be any
6 incentive for the ILECs to invest in their own
7 networks.

8 Q. Would Verizon avoid any costs when the CLEC
9 migrates off of Verizon's network to serve its
10 customers using its own network?

11 A. In the forward-looking world of TELRIC, they
12 would build a network based on a certain price, and
13 that price was designed to allow them to recover
14 their cost over the life of the network, say 17
15 years. When the CLEC left, their cost would stay the
16 same, but they would lose the customer, and so their
17 profits would go down.

18 That's why, in competitive markets,
19 companies would not make an investment in those
20 facilities unless the cost of capital were higher and
21 they were able to set prices that reflected not only
22 the underlying cost of providing the facilities, but
23 reflected also the likelihood that some more
24 efficient CLECs would leave the network.

25 Q. But if, as you say, the costs remained the

0588

1 same and Verizon becomes less profitable, wouldn't
2 that stimulate Verizon to seek to raise its own
3 prices however it was able to do so?

4 A. I don't understand the question. Which
5 prices would Verizon be stimulated to increase?

6 Q. Its retail prices, and its UNE prices, I
7 suppose, but --

8 A. Well, it wouldn't have the opportunity to
9 raise its UNE prices, because they're regulated, and
10 so are its retail prices.

11 Q. Although Verizon can seek to have its retail
12 rates increased?

13 A. Well, it can seek to have its retail rates
14 increased, but if its UNE rates are below cost and,
15 hence, its competitors can provide retail service at
16 a lower cost than Verizon Northwest can, it certainly
17 can't raise its retail rates, because it would lose
18 even more customers because the competitors can offer
19 service at a lower cost than they can, due to the
20 below-cost UNE rates.

21 Q. Well, actually, I was referring to our
22 previous discussion, in which we assumed that the
23 Commission had set UNE rates at the rate that Verizon
24 believes would be fully compensatory?

25 A. Yes, and that's why I'm suggesting that you

0589

1 have to set -- you have to have a risk premium that
2 will be sufficient to allow Verizon to recover its
3 actual cost of capital, so that if the cost of
4 capital is, say, a 12 percent, you might have to set
5 the UNE rates based on a cost of capital of 15 or 16
6 percent under the TELRIC standard to give them, the
7 company, an opportunity, if it makes the investment
8 in the forward-looking network, to actually earn its
9 cost of capital, and that's what -- that's what would
10 happen in competitive markets.

11 Q. And to the extent that Verizon was not able
12 to make its own cost of capital in the retail market,
13 wouldn't that put upward pressure on Verizon's retail
14 rates?

15 A. I don't understand the question. Did you
16 mean to say to the extent it wasn't able to earn its
17 cost of capital in the UNE market as the preface?

18 Q. No, in the retail market, because, again,
19 we're taking the assumption that CLECs will have a
20 greater incentive to take customers off of Verizon's
21 network and leave more of Verizon's facilities dark,
22 if you will, and therefore Verizon would need to
23 generate revenues from its existing customers,
24 despite the fact that it has invested in a much
25 larger network.

0590

1 A. But Verizon won't be able to raise its
2 retail rates in that environment, because the CLECs
3 are offering UNEs at -- are offering retail service
4 using UNEs that are priced below cost. And so the
5 CLECs will be able to provide retail service at a
6 lower cost than what it actually costs Verizon to
7 provide retail service, and it won't do Verizon any
8 good to raise its retail rates.

9 Q. So --

10 A. It won't recover any more revenue and it
11 won't earn its cost of capital by raising its retail
12 rates when competitors are providing retail service
13 at below Verizon's cost.

14 Q. Okay. If I could get you to turn to page 54
15 of Exhibit 101-T. And beginning on line one, again,
16 you're discussing the higher risk of cancellable
17 operating leases, and stating that it's widely
18 recognized in the financial community, and provide
19 some examples.

20 And the example that I wanted you to focus
21 on is the second one, which begins on line five,
22 which is that wireless service providers offer lower
23 rates for customers who are willing to sign longer
24 term contracts.

25 A. Yes.

0591

1 Q. Verizon also offers lower rates for
2 customers who are willing to sign longer term
3 contracts, doesn't it?

4 JUDGE MACE: Are we talking about CLECs that
5 are buying UNEs?

6 MR. KOPTA: No, I'm talking about retail
7 services, or actually tariffed services.

8 THE WITNESS: I'm not familiar with
9 Verizon's retail tariff rates.

10 Q. I'm not asking about the rates; I'm just
11 asking whether you were aware that Verizon enters
12 into longer term contracts with some customers at
13 reduced rates?

14 A. I'm not aware of it, no. I mean, it sounds
15 reasonable, but I'm not aware of it.

16 Q. So you don't know whether the financial
17 community is aware of it?

18 MR. BERRY: I'm going to object to the
19 question as vague. I'm not clear on what the it is
20 he's referring to there.

21 JUDGE MACE: Mr. Kopta, could you be a
22 little more precise in your question?

23 MR. KOPTA: Sure.

24 Q. Do you know whether the financial community
25 is aware of whether Verizon offers lower rates in

0592

1 exchange for long-term contracts?

2 A. At the retail level?

3 Q. At the retail level.

4 A. I don't know.

5 Q. Okay. What's your basis, then, for your
6 knowledge that wireless carriers offer such rates?

7 A. Because I have purchased wireless phone
8 service and I'm aware of the pricing of wireless
9 phone service. I'm not aware of pricing the retail
10 services in the state of Washington.

11 Q. Would you expect stock analysts to be aware
12 of that?

13 A. I think stock analysts would deal at more
14 the national level and would be looking at the
15 factors that affected the company whose stock is sold
16 in the market. To the -- I'm not really sure that
17 they would be aware of retail -- long-term -- I don't
18 think the existence of discounts on long-term
19 contracts for retail services in one state would be
20 of sufficient magnitude on the parent company,
21 Verizon Corporation's profits to come to the
22 attention of stock analysts.

23 Q. Well, what about whether that's -- do you
24 know whether it's Verizon's practice in any other
25 state or --

0593

1 A. No, I don't.

2 Q. Okay. To the extent -- well, let's put it
3 this way. Verizon Wireless is part of Verizon, is it
4 not?

5 A. Yes.

6 Q. Is it one of the carriers to which you refer
7 that offer lower rates for longer term contracts?

8 A. Yes.

9 Q. From an economic standpoint, can you provide
10 any reason why Verizon, in its wireline operations,
11 would not offer similar contracts for customers, to
12 the extent that they are able to continue to earn
13 their cost of capital and other costs?

14 A. Verizon would have -- if UNE rates for
15 short-term contracts or if retail rates for
16 short-term contracts reflected the risk of
17 shorter-term contracts, then Verizon would have an
18 incentive to offer lower rates, discounted rates for
19 longer-term contracts because they have lower risk.
20 So then the prices would reflect the risk. Higher
21 prices for short-term contracts, because there's
22 higher risk; lower prices for long-term contracts,
23 because there's lower risk.

24 It wouldn't do Verizon any good to offer
25 discounts for longer term contracts if they're

0594

1 already losing money on the shorter term contracts
2 for UNE rates or retail services, whichever we're
3 talking about, because that would just cause them to
4 lose even more money. But if they were -- if the
5 shorter term contracts were priced appropriately,
6 then yes, they would have, at that point, which is
7 not the current situation, they would have an
8 economic incentive, in my opinion, to offer discounts
9 for longer term contracts, because they would have
10 lower risk.

11 Q. Well, let's focus on a specific market
12 segment and say larger business customers. Are you
13 aware of whether CLECs offer long-term contracts to
14 larger business customers at lower rates than they
15 could otherwise get on a month-to-month basis?

16 A. No. I mean, again, it sounds reasonable,
17 but I'm not -- you asked if I'm familiar with it and
18 I'm not. I'm not aware of it.

19 Q. Are you aware of, other than residential
20 services that we talked about before, any Verizon
21 services that are priced at a level that do not
22 recover all costs, including the appropriate cost of
23 capital?

24 A. My opinion that UNE services are priced in
25 that manner.

0595

1 Q. Any retail or tariffed services?

2 A. In general, I haven't studied Washington in
3 particular, although there certainly is some evidence
4 to that effect, but in general, having been in the
5 telecommunications industry for the last 25 years,
6 I'm very much aware that residential services have
7 generally been priced below cost and -- in order to
8 promote universal service, and that's pretty commonly
9 accepted for the history of the telecommunications
10 industry.

11 Q. But that's the only service that you're
12 aware of that is arguably within that situation?

13 A. I haven't studied other services. I'm not
14 aware of any.

15 Q. While we're talking about wireless
16 companies, if you would please turn to your rebuttal
17 testimony, which is Exhibit 106-T-C, and specifically
18 table six, which begins on line 12.

19 JUDGE MACE: What page?

20 MR. KOPTA: It's on page 56.

21 THE WITNESS: Yes.

22 Q. Am I correct that you have -- that this
23 table represents a correction that you have made to
24 information that Dr. Selwyn provided in his
25 testimony?

0596

1 A. No, that's not a correction. The point of
2 this table is that Dr. Selwyn segments out the
3 businesses into categories that Verizon does not
4 segment out in their 10-K reports or their 10-Q
5 reports. In particular, Dr. Selwyn has reported
6 income or assets that is, by long distance service
7 and by data services or broadband services, as well,
8 and he has not provided any category that I could
9 tell for directory services. And he said that he got
10 that information from Verizon's 10-K reports, and the
11 purpose of this table is to show that Verizon doesn't
12 provide information on its assets associated with
13 broadband or its assets associated with long distance
14 services, and it does provide information on its
15 directory services that was neglected in Dr. Selwyn's
16 segmentation.

17 And so I don't know where he obtained the
18 information to make his segmentation for different
19 lines of business. It was not in Verizon's 10-K
20 report and I don't believe that there was any
21 rational basis in the 10-K report. I've studied it
22 extensively. There's nothing in that 10-K report to
23 provide a rational basis to allocate Verizon's
24 business to long distance or to broadband, and/or to
25 neglect directory.

0597

1 Q. I'm sure that Dr. Selwyn would love to
2 explain how he did it if Verizon's counsel gives him
3 the opportunity, but for now, I want to focus on the
4 wireless category that you've got in your table here,
5 and let's start with Verizon. Are these the total
6 assets of Verizon Wireless, the 65 million or 65
7 billion dollars?

8 JUDGE MACE: I guess it's not really clear
9 what those units are.

10 MR. KOPTA: Yes, it's not, but I believe
11 it's billion.

12 THE WITNESS: Those are -- that's correct.
13 I did not report the units. That is billions.

14 JUDGE MACE: It's dollars?

15 THE WITNESS: Dollars, yes, billions of
16 dollars. This -- the question is are these all of
17 their wireless assets, these --

18 Q. All of the assets of Verizon Wireless, the
19 company?

20 A. I guess what I know for certain is that
21 these are the assets that are reported in Verizon's
22 10-K report for its wireless assets. A Verizon
23 accountant would have to testify on whether those
24 were all of their wireless assets or whether they had
25 wireless assets somewhere else. These are exactly

0598

1 what was reported in the 10-K reports for their lines
2 of business. This and no more.

3 Q. Well, and let me be more specific. Are you
4 aware that Verizon only owns 55 percent of Verizon
5 Wireless?

6 A. Yes, it does own 55 percent. It does only
7 own 55 percent of Verizon Wireless.

8 Q. So the question is whether the 65 billion
9 includes the entire company or only 55 percent --

10 A. Ah.

11 Q. -- of the company?

12 A. For Verizon, because they have -- they felt
13 they met the accounting standards for including all
14 of the assets for Verizon Wireless on their balance
15 sheet, so this includes all of the assets. So their
16 actual wireless assets, if you multiply it by the 55
17 percent, would be less than this.

18 Q. Okay.

19 A. What I do know is they don't have any
20 broadband or any long distance reported in the 10-K
21 report, and that was the point of this table.

22 Q. Okay. Well, I understand that, but we're
23 talking about wireless right now.

24 A. Okay.

25 Q. What about SBC?

0599

1 A. SBC --

2 MR. BERRY: Can I just object to the
3 question? What is the question with regard to SBC?

4 MR. KOPTA: Well, I was going to make it.

5 JUDGE MACE: Why don't we hear the question.

6 MR. KOPTA: Your witness was very anxious.
7 I think he knew what I was going to ask.

8 Q. SBC and BellSouth jointly own Cingular
9 Wireless; is that your understanding?

10 A. Yes.

11 Q. And has SBC done the same thing that Verizon
12 has done and reported all of the assets of Cingular
13 Wireless?

14 A. No, SBC has provided only -- has reported
15 only its fraction, and I don't know the explanation
16 for that, that they felt it was consistent with
17 accounting standards for them to report their
18 fraction, which I believe was 60 percent of their
19 wireless assets.

20 Q. Does that work out mathematically between
21 these two numbers for SBC and BellSouth?

22 A. There's not sufficient information here to
23 tell. I'd have to know what Cingular's wireless
24 assets were to know whether the sum of 60 -- of SBC's
25 wireless and BellSouth's wireless totaled to

0600

1 Cingular's wireless assets.

2 Q. Let me ask the question more directly, then.
3 Is 10 billion, which is what BellSouth has reported,
4 40 percent of 35 billion, which would be the total of
5 SBC and BellSouth wireless assets?

6 A. Maybe I -- maybe my percentage was wrong,
7 then. I was -- my recall was that it was 40 percent.
8 Maybe it wasn't 40 percent. It maybe was less than
9 40 percent. These are the wireless assets, however,
10 that BellSouth reported and these are the wireless
11 assets that SBC reported.

12 Q. Well, the reason I ask is because it looks
13 to me, and being a lawyer doing math is always
14 dangerous, that the 10 billion is roughly 40 percent
15 of the 25 billion that SBC has reported, which leads
16 me to believe that SBC, like Verizon, because it is a
17 majority owner of the wireless assets, reported the
18 entirety of the wireless assets?

19 A. That would be possible. It wasn't -- that
20 fact was not relevant for the purpose of this table,
21 so I'm going only on my recall. It wasn't an
22 essential element of my testimony.

23 JUDGE MACE: Mr. Kopta, I'm mindful that you
24 signed up for two hours of cross-examination for this
25 witness, and I see that our time is at 5:00 p.m., and

0601

1 I want to check in with the Commissioners and the
2 parties to see where we're going to go with this.

3 CHAIRWOMAN SHOWALTER: We think it's time to
4 quit.

5 JUDGE MACE: Okay. We're going to adjourn
6 until 9:30 tomorrow morning. Now, let me make sure
7 that I understand. We'll continue with Dr.
8 VanderWeide, and then go on to Dr. Selwyn, and just
9 follow our list along, only it will just be delayed
10 somewhat.

11 MR. KOPTA: Correct.

12 JUDGE MACE: All right. Then we'll resume
13 at 9:30 tomorrow morning. Thank you.

14 MR. KOPTA: Thank you.

15 (Proceedings adjourned at 5:00 p.m.)

16

17

18

19

20

21

22

23

24

25