

1 BEFORE THE WASHINGTON UTILITIES AND
2 TRANSPORTATION COMMISSION

3 In the Matter of the Continued)
4 Costing and Pricing of) Docket No. UT-003013
5 Unbundled Network Elements and) Volume XXV
6 Transport and Termination.) Pages 3024 to 3213
7 _____)

8 A hearing in the above matter was held on
9 April 5, 2001, at 9:30 a.m., at 1300 South Evergreen
10 Park Drive Southwest, Room 206, Olympia, Washington,
11 before Administrative Law Judge LAWRENCE BERG and
12 Chairwoman MARILYN SHOWALTER and Commissioner RICHARD
13 HEMSTAD and DR. DAVID GABEL.

14 The parties were present as follows:

15 COVAD COMMUNICATIONS COMPANY, by MEGAN
16 DOBERNECK, Attorney at Law, 7901 Lowry Boulevard,
17 Denver, Colorado 80230.

18 THE WASHINGTON UTILITIES AND TRANSPORTATION
19 COMMISSION, by GREGORY J. TRAUTMAN and MARY TENNYSON,
20 Assistant Attorneys General, 1400 South Evergreen Park
21 Drive Southwest, Post Office Box 40128, Olympia,
22 Washington, 98504-0128.

23 QWEST CORPORATION, by LISA ANDERL, Attorney
24 at Law, 1600 Seventh Avenue, Suite 3206, Seattle,
25 Washington 98191, and by JOHN M. DEVANEY, Attorney at
Law, Perkins Coie, LLP, 607 Fourteenth Street Northwest,
Washington, D.C. 20005-2011.

26 VERIZON NORTHWEST, INC., by JENNIFER L.
27 MCCLELLAN and MEREDITH B. MILES and JEFF EDWARDS,
28 Attorneys at Law, Hunton and Williams, 951 East Byrd
29 Street, Richmond, Virginia 23219.

30 Joan E. Kinn, CCR, RPR
31 Court Reporter

03025

1 ELECTRIC LIGHTWAVE INC.; ADVANCED TELECOM
2 GROUP, INC.; AT&T COMMUNICATIONS OF THE PACIFIC
3 NORTHWEST, INC.; MCLEOD USA TELECOMMUNICATIONS SERVICES
4 INC.; FOCAL COMMUNICATIONS CORPORATION OF WASHINGTON;
5 AND XO WASHINGTON, INC.; by GREGORY J. KOPTA, Attorney
6 at Law, Davis, Wright, Tremaine, LLP, 1501 Fourth
7 Avenue, Suite 2600, Seattle, Washington 98101.

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5 WORLDCOM, INC., by ANN HOPFENBECK, Attorney
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7 80202.

INDEX OF EXAMINATION

WITNESS:	PAGE:
HOWARD LEE JONES	
Recross-Examination by Mr. Kopta	3031
Examination by Dr. Gabel	3049
REX M. KNOWLES	
Direct Examination by Mr. Kopta	3050
Cross-Examination by Mr. Devaney	3051
Cross-Examination by Ms. Anderl	3064
Cross-Examination by Mr. Edwards	3082
Cross-Examination by Mr. Trautman	3100
Examination by Dr. Gabel	3110
Examination by Chairwoman Showalter	3116
Recross-Examination by Mr. Edwards	3117
Examination by Chairwoman Showalter	3119
Redirect Examination by Mr. Kopta	3119
Recross-Examination by Ms. Anderl	3125
Redirect Examination by Mr. Kopta	3128
WILLIAM E. TAYLOR	
Direct Examination by Mr. Devaney	3130
Cross-Examination by Mr. Kopta	3131
Cross-Examination by Ms. Hopfenbeck	3146

03027

1	Examination by Dr. Gabel	3161
2	Examination by Chairwoman Showalter	3171
3	Examination by Commissioner Hemstad	3185
4	Examination by Chairwoman Showalter	3190
5	Examination by Dr. Gabel	3192
6	Redirect Examination by Mr. Devaney	3194
7	Examination by Dr. Gabel	3205
8	Examination by Chairwoman Showalter	3211
9	Recross-Examination by Mr. Kopta	3211
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		

03028

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INDEX OF EXHIBITS

4 -----

5 EXHIBIT:

MARKED:

ADMITTED:

6

WILLIAM E. TAYLOR

7 T-1120

3029

3131

8 1121

3029

3131

9 T-1122

3029

3131

10 1123

3029

11 1124

3029

12

MARK E. ARGENBRIGHT

13 T-1200

3029

14 T-1201

3029

15 1202, C-1202

3030

16 1203

3030

17 1204

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18 1205

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19

REX M. KNOWLES

20 T-1210

3030

3051

21 1211

3030

3051

22 1212

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23 T-1213

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24 1214

3030

3075

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P R O C E E D I N G S

JUDGE BERG: This is a continued hearing in Docket Number UT-003013. Today's date is April 5, 2001. At this point in the transcript record, I would like the reporter to enter the exhibit number and description of Exhibits T-1120 through 1124, T-1200 through 1205, and Exhibits T-1210 through 1214 as set out on the exhibit list dated 4/2/01 as if read into the record in their entirety.

(The following exhibits were identified in conjunction with the testimony of WILLIAM E. TAYLOR.)

Exhibit T-1120 is Direct Testimony of Dr. William E. Taylor (WET-T1). Exhibit 1121 is Curriculum Vitae of Dr. William E. Taylor (WET-2). Exhibit T-1122 is Rebuttal Testimony of Dr. William E. Taylor (WET-3T). Exhibit 1123 is Qwest Response to Joint Intervenors DR JI 01-013. Exhibit 1124 is Qwest Response to Joint Intervenors DR JI 01-015.

(The following exhibits were identified in conjunction with the testimony of MARK E. ARGENBRIGHT.)

Exhibit T-1200 is Response Testimony of Mark E. Argenbright (MEA-1T). Exhibit T-1201 is Cross

03030

1 Response Testimony of Mark E. Argenbright (MEA-2T).
2 Exhibit 1202, C-1202 is WorldCom's Response to Qwest's
3 DR 10. Exhibit 1203 is WorldCom's Response to Qwest's
4 DR 12. Exhibit 1204 is WorldCom's Response to Qwest's
5 DR 14. Exhibit 1205 is WorldCom's Response to Qwest's
6 DR 18.

7

8 (The following exhibits were identified in
9 conjunction with the testimony of REX M. KNOWLES.)

10 Exhibit T-1210 is Part B Response Testimony
11 of Rex Knowles dated 10/23/00. Exhibit 1211 is Verizon
12 & Qwest's Response to DR's (RK-1). Exhibit 1212 is
13 Qwest Marketing Material (RK-2). Exhibit T-1213 is Part
14 B Rebuttal Testimony dated 2/7/01. Exhibit 1214 is
15 Excerpt of Qwest's FCC Access Tariff (Private Line
16 Transp.).

17

18 JUDGE BERG: We will be off the record.

19 (Discussion off the record.)

20 JUDGE BERG: Ms. Miles, I understand that
21 Verizon is making Mr. Jones available this morning to
22 respond to further questions relating to Exhibit 1183
23 and C-1183; is that correct?

24 MS. MILES: That's correct.

25 JUDGE BERG: Mr. Jones, would you please

03031

1 stand and raise your right hand.

2

3 Whereupon,

4

HOWARD LEE JONES,

5 having been first duly sworn, was called as a witness

6 herein and was examined and testified as follows:

7

8 JUDGE BERG: All right, thank you, sir.

9

Mr. Kopta.

10 MR. KOPTA: Thank you, Your Honor.

11

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

13 BY MR. KOPTA:

14 Q. Good morning, Mr. Jones, long time, no see.

15 I wanted to ask you a few questions about the study
16 which is Exhibit C-1183. First, did you participate in
17 the preparation of this study?

18 A. No, I just basically hired Hewlett Packard to
19 do the study.

20 Q. You were the individual that hired Hewlett
21 Packard on behalf of Verizon or at that time GTE?

22 A. Yes.

23 Q. Would you turn to page two, and before I ask
24 too many questions about this, I wanted to confirm that
25 this is a confidential document, or it's identified as a

03032

1 confidential document, and am I correct that that's for
2 the numbers, for example, telephone numbers or call
3 minutes and that sort of thing?

4 A. It's more for the identification of the named
5 customers than anything else. We don't like to, how do
6 you want to put it, make public a whole bunch of
7 information about our customers.

8 Q. The FCC frowns on that too.

9 A. Yes, they do.

10 Q. Okay, well, if I start to tread in areas
11 where I shouldn't, please correct me.

12 On page two, I'm looking at the third full
13 paragraph on that page, and the first sentence of that
14 paragraph reads:

15 The purpose of this study was to measure
16 the call volume, average call holding
17 time, and resource usage by these ISPs
18 which were discussed in the prior two
19 paragraphs.

20 Do you see where my reference is?

21 A. Yes, sir.

22 Q. So as I understand it, the purpose of the
23 study was to measure call volume as opposed to any ratio
24 of inbound to outbound calling?

25 A. I really don't know where you're

03033

1 inbound/outbound. This was call volume to ISPs or to
2 other people, so I guess every call effectively has an
3 inbound and an outbound side, so I'm --

4 Q. No, I, well, I apologize for not being clear.
5 What we were discussing during our prior conversation
6 was the 17 to 1 imbalance of traffic.

7 A. Yes.

8 Q. And the extent to which customers are making
9 more calls than they're receiving. So what my question
10 is is that this is, or vice versa, that this study is
11 not intended nor does it demonstrate any kind of pattern
12 in terms of specific customers or customer types in
13 terms of more outbound calls as opposed to inbound calls
14 or vice versa?

15 A. Basically this study doesn't address ratios
16 or inbound/outbound type numbers. Its purpose is to
17 reflect loads on switches and so forth. So I think that
18 because the inbound/outbound ratios are actually between
19 carriers and not about "customers" per se, although the
20 ratio definitely is an indicator of what type of
21 customers you might have, basically any kind of out of
22 balance condition is indicative of a lot of ISP traffic.

23 In fact, some of the tables in this exhibit
24 are quite interesting, particularly on page 77. Call
25 duration in the table of percentages underneath that

03034

1 shows the percentage of in effect load that's on the
2 switches that are shown there for the whole 24 hour
3 period of each of those days. It shows ISP as a
4 percentage of total traffic, and it averages somewhere
5 around 45%. There really is no other kind of traffic.
6 And, of course, that is all one way traffic, and this is
7 all ISPs, pure ISPs. There is no other kind of consumer
8 customer in telephony that could generate that kind of
9 volume on the total network.

10 Q. Well, let's talk about the definition of ISPs
11 in the study, and we're back on page two looking at
12 footnote one, and the footnote states:

13 Throughout this document, the term
14 Internet service provider is used to
15 mean data service provider. The term is
16 used to describe a class of public
17 switched telephone network (PSTN) users
18 that provide access to data services
19 such as the Internet. This may also
20 include other more traditional data
21 service providers such as college
22 computer centers that exhibit the same
23 calling patterns and therefore produce
24 the same effects on the PSTN.
25 Is that the definition of ISP that you are

03035

1 using in your testimony?

2 A. Having been involved with this study and
3 having looked at all the other representations in here,
4 while that definition or description, if you will, does
5 include other non-Internet, web surfing, AOL.com things,
6 the actual data itself is all Internet, web surfing,
7 AOL.net, or, you know, DJECs or similar customer sets.

8 Q. And would you point to me in the study where
9 there is a discrepancy between Internet service
10 providers as you have discussed them and any other type
11 of data provider?

12 A. On page 8.8, it talks about America on Line
13 as the studied number, and basically in 9.10 or 9-10 it
14 shows America on Line's usage characteristics. So I can
15 inform you that when we did this study, we
16 intentionally, if you want to put it, with intent looked
17 for strictly Internet service providers.

18 Q. Well, the chart that you showed me
19 demonstrates one of the telephone numbers, but there are
20 multiple telephone numbers that were studied in this
21 particular study, are there not?

22 A. Yes, sir.

23 Q. And I don't see any other customers
24 associated with those telephone numbers, do you?

25 A. I don't believe that, maybe due to CPNI, that

03036

1 the study actually goes in and identifies each and every
2 ISP that was studied, each and every that is pure ISP as
3 in .net type retailers.

4 Q. Would you turn to page five of the study.

5 A. (Complies.)

6 Q. Actually, the first full paragraph that
7 starts on that page describes how HP identified Internet
8 service providers as that term is defined in this
9 document.

10 A. Yes, sir.

11 Q. And the second to the last sentence states,
12 verification, well, actually, the second and third to
13 the last sentences, no, I guess I do just want the
14 second to last sentence, excuse me:

15 Verification was to dial the number and
16 detect a modem tone indicating that
17 users dialed in for some form of data
18 service.

19 So according to the verification, it could
20 have been an Internet service provider, as you have
21 defined the term, or it could have been some other data
22 service, couldn't it?

23 A. It could have been, but that was not the
24 situation here. In fact, having been associated with
25 this, those were Internet service providers, retail.net

03037

1 providers, as I have explained earlier.

2 Q. On page three of the study, the paragraph
3 prior to the heading 3 data collection, may I name this
4 particular customer?

5 A. I'm sorry, sir, I'm not finding a customer
6 name.

7 Q. Page three, it's the paragraph above the
8 heading 3 data collection, it starts:

9 The third part calculated the same
10 statistics for some non-ISP customers,
11 in particular, three --

12 A. Yes, Pizza Hut.

13 Q. Okay, last thing I want to do is get
14 Pepsi-Cola down on me.

15 Why were Pizza Hut restaurants chosen?

16 A. Actually, the Hewlett Packard people selected
17 Pizza Huts as a comparative example of a customer who
18 might have, as it explains I think in a later paragraph,
19 who might have been I believe the words are
20 characterized by some as one-way call services.

21 Q. I believe it's in that same paragraph.

22 A. Okay.

23 Q. If I'm not mistaken. It says:

24 In particular, three Pizza Hut
25 restaurants were examined because some

03038

1 believe that a Pizza Hut restaurant may
2 be a close approximation to an ISP.

3 A. Yes, thank you, sir.

4 Q. Do you know who the some is in that
5 reference, who the some are that believe that the Pizza
6 Hut --

7 A. I didn't write it, so I suspect that that's
8 perhaps some sort of a perception that a lot of people
9 might have.

10 Q. Are you familiar with Pizza Hut restaurants?

11 A. Yes.

12 Q. You can dine in at a Pizza Hut as well as
13 order delivery from a Pizza Hut; is that your
14 understanding?

15 A. That's true, and they have a product called
16 pizza that doesn't require the use of a telephone in
17 that case. In fact, it basically doesn't require the
18 use of a telephone as a product in and of itself, which
19 is quite different than Internet service providers,
20 which absolutely require telephony to deliver their
21 product.

22 Q. I guess I'm assuming that the reason that
23 some may believe that a Pizza Hut would be a close
24 approximation to an ISP is because they may receive a
25 lot of calls for some service.

03039

1 A. I believe that's a general belief of the
2 public perhaps.

3 Q. And I guess my point is that there's no basis
4 here to assume that Pizza Huts would necessarily fit the
5 description of another purely delivery type service
6 provider.

7 A. Sir, I find that to be a matter of common
8 understanding.

9 Q. What do you find to be a matter of common
10 understanding?

11 A. That Pizza Huts would be largely a place that
12 received telephone calls for the provision of their
13 subsequent and different product called pizza.

14 Q. But this study was to determine the volume of
15 calling, was it not?

16 A. Yes, sir.

17 Q. Wouldn't you expect the volume of calling to
18 be higher to an establishment that only delivered as
19 opposed to also had service on premise?

20 A. Yes.

21 Q. Also on this page there are a list of the
22 four central offices or end offices that were studied.
23 Are the identity of those central offices confidential?

24 A. No, sir.

25 Q. Are you familiar with these areas that are

03040

1 served by these end offices?

2 A. Yes, I have been in the Thousand Oaks central
3 office.

4 Q. Am I correct that they serve primarily
5 residential and small business customers?

6 A. Having the most experience with Thousand
7 Oaks, I would not necessarily characterize Thousand Oaks
8 as residential. It's a fairly vibrant business
9 community as well. The others I'm not quite as familiar
10 with, but I really wouldn't say that those are
11 exclusively residential and small business.

12 Q. But certainly they're not the same as Long
13 Beach or downtown Los Angeles?

14 A. That's a judgment that I wouldn't undertake
15 at this point.

16 Q. Do you know whether the calling
17 characteristics of these end offices is comparable to
18 the calling characteristics in any of the central
19 offices in Washington?

20 A. We have experienced quite a bit of Internet
21 traffic load during the actual business day busy hour in
22 Washington that has caused myself and some switching
23 engineers to have to go into whether or not -- actually,
24 at the point in time that it was, sir, I had a product
25 or have, I had a product at the time, I guess I lost it

03041

1 about a year ago, that provided modem access for another
2 large customer. In fact, modem access customers tend to
3 be very large, because a lot of them are wholesalers.
4 So, you know, Olympia.net would more than likely buy its
5 modem access from a wholesaler rather than provide its
6 own modems.

7 In any case, yes, the answer is that I would
8 expect that the GTE Verizon territory in Washington,
9 particularly Kirkland and Redmond, would show traffic
10 characteristics similar to Thousand Oaks.

11 Q. Now as I understand it, this study was
12 conducted, the sampling actually was conducted during a
13 week in August of 1997; is that correct?

14 A. Yes.

15 Q. And that was approximately six months after
16 passage of the Telecommunications Act of 1996?

17 A. Yes.

18 Q. Well, more than that, it was '97, that was
19 more than a year and a half after the passage of the
20 Act.

21 A. Okay.

22 Q. Is there anything in this study that
23 addresses intercarrier traffic as opposed to just the
24 traffic that is carried on Verizon's or at that time
25 GTE's network?

03042

1 A. I think that if we talk about 17 to 1 ratios
2 and then if we make a conclusion or judgment that the 17
3 to 1 would indicate that there is Internet service
4 providers on an intercarrier interconnection link, then
5 the study is valid from the perspective that it studies
6 Internet service provider traffic.

7 Q. But there's nothing in the study itself that
8 addresses traffic that comes from any other source than
9 other Verizon or at this time GTE customers, is there?

10 A. Well, actually, especially for the exchanges
11 studied, which are in greater L.A., there is a lot of
12 intercarrier traffic between us and PacBell, so the data
13 here would not strictly be Verizon California data. It
14 would include intercarrier traffic between us and
15 PacBell as well as intercarrier traffic between whatever
16 other carriers existed in these exchanges. So it
17 doesn't specifically get to that question, but it
18 doesn't exclude that traffic at all.

19 Q. On page four at the bottom of the page, it's
20 a paragraph that starts on page four and carries over to
21 page five, it states:

22 GTE provided a list of 34 suspected ISP
23 terminating numbers as well as 3 Pizza
24 Hut store terminating numbers. The ISP
25 numbers were determined by GTE using

03043

1 various public resources such as
2 Internet web sites and Yellow Pages.
3 My understanding from our conversation
4 earlier was that GTE now Verizon knows which of its
5 customers are ISPs. Why did you go through this
6 mechanism if you know what customers are ISPs?

7 A. Well, I think that's a good question, and it
8 has to do with the date of the study. The situation,
9 and I basically took over the ISP segment about six
10 months before this study was done, was that the retail
11 arm of Verizon had control or whatever you want to call
12 it of the ISP marketplace, and a decision was made to
13 transfer control of the ISP market segment to wholesale,
14 which is my department. And there was a considerable
15 amount of conflict at this time, which has long since
16 been resolved, between the retail and wholesale arms.
17 And I think as I mentioned earlier in prior testimony,
18 that has to do with the commissions that are paid to
19 sales people who sell these services. So at this
20 juncture, there were difficulties is the best way to put
21 it identifying ISPs, and that is -- actually, it was
22 resolved through the '98, '99 time frame.

23 Q. Would you turn to page ten of the study, and
24 am I correct that the first full paragraph on this page
25 was what you read into the record prior to the time that

03044

1 this exhibit was identified and entered?

2 A. Yes, it is, and the point of reading it into
3 the record was that the largest cited alternative to
4 ISPs in this paragraph only has 1% of the traffic that
5 ISPs have.

6 Q. And the comparisons in this paragraph are
7 telephone number to telephone number, are they not?

8 A. I do not know.

9 Q. Well, let's look at page nine on the chart,
10 upper left-hand corner; isn't that a telephone number?

11 A. Yes.

12 Q. So am I -- do I assume correctly that the
13 data on this page comes from calls made to this
14 telephone number?

15 A. On page nine, yes. I'm not so sure that the
16 statement on page ten is dependent on page nine or even
17 the table underneath that.

18 Q. Well, looking at the chart on page nine, if
19 you look at the first set of numbers under hour, number
20 of calls, et cetera, so within the first hour.

21 A. Mm-hm.

22 Q. The number of calls, called holding times,
23 and then the second column, seconds.

24 A. Yes.

25 Q. That's obviously many call paths that are

03045

1 assigned to that particular telephone number, isn't it?

2 A. Yes.

3 Q. And if you turn to the chart on page ten,
4 again upper left-hand corner, that's a telephone number,
5 same information in the chart. If you look at the
6 number of calls, the average call holding time seems
7 like this is probably a single business line as opposed
8 to multiple paths coming off of the same telephone
9 number. Is that a fair assumption?

10 A. Do you mean -- do you mean that the table on
11 page nine would have a multiline hunt group, and the
12 table on page ten wouldn't? I'm not so sure that that's
13 the case. I think that these are interesting tables in
14 the sense particularly that number of calls not answered
15 on page nine is, you know, significant. While on page
16 ten, there are no calls not answered. And I think that
17 that's important, because that has important effects
18 upon the network.

19 When you talk about call setup, basically if
20 my experience with reciprocal compensation comes into
21 play, you won't see bills for calls that have not
22 proceeded and been completed. And so therefore, there's
23 a lot more call setups going on, in other words reaching
24 busy signals in this instance, than would be experienced
25 by the average use of a phone call. Those call setups

03046

1 are costing money, and I don't believe that the current
2 structure accounts for that.

3 Q. Well, that's all well and good, that really
4 wasn't my question, however.

5 Are you saying that based on the table on
6 page ten that it's very likely that this telephone
7 number has multiple paths, calling paths, associated
8 with it based on the amount of traffic?

9 A. Yes, sir, that's probably multiple trunk hunt
10 groups of sometimes those number up into 3000 to 4000
11 DS0 paths, which is one of the high speed --

12 Q. You're talking about the table on page nine,
13 right?

14 A. Yes, sir.

15 Q. All right. And then on page ten, you
16 wouldn't make that same conclusion based on the amount
17 of minutes and number of calls to this telephone number,
18 would you?

19 A. It would be a smaller hunt group, but it
20 could certainly be a multiline hunt group. The way
21 those work, of course, is that they just ascend hunt
22 through the originating number, so there's no way to
23 tell for sure that the Pizza Hut doesn't have a
24 multiline number.

25 Q. Well, is there any hour during the day that

03047

1 the traffic could not be handled over a single business
2 line with no hunt groups, just a single basic business
3 line, based on the table on page ten?

4 A. It can't be determined, sir.

5 Q. It can't be determined?

6 A. Whether or not that's a single line or a
7 multiline hunt group.

8 Q. Well, what I'm asking you, however, is based
9 on the traffic levels here, could it all be accommodated
10 over a single line without a multiline hunt group?

11 A. Either way, it could have been accommodated
12 either way.

13 Q. Well, the customer is paying a lot of money
14 for extra lines that it doesn't need if it's got more
15 lines than -- if it can handle all the traffic over a
16 single line.

17 A. That's non-traffic sensitive demand; they
18 order as many as they wish.

19 Q. But it's not a non-traffic sensitive cost, is
20 it?

21 A. From the perspective that that's a customer
22 line that's ordered by the customer, then the
23 non-traffic sensitive pieces of it are strictly a
24 function of how many orders, that's --

25 Q. Are you familiar with the type of service

03048

1 that Pizza Hut restaurants get?

2 A. In my experience, typically they would have
3 key system type services, which are one kind of
4 multiline hunt group.

5 Q. Would they have the same level of multiline
6 hunting as an AOL?

7 A. Probably not.

8 Q. And based on the traffic volumes in each of
9 these two studies, there's a significant difference
10 between the amount of facilities that are used by the
11 table on page nine than on the table on page ten, isn't
12 there?

13 A. Well, there might very well be, and that's
14 part of the indications that you're looking at roughly
15 50% of the traffic load being on ISP traffic, so yeah.

16 Q. Was there any effort to try and identify a
17 non-ISP customer that had the same amount of call paths
18 associated with a single telephone number as AOL?

19 A. I believe that effort would have gone
20 unanswered, because I don't think there's any other kind
21 of customer that would have the same kind of call path
22 quantities as AOL in my experience.

23 Q. So there aren't any other large businesses
24 that would have multiline hunt groups?

25 A. Not in this 4000 to 5000 range of hunt

03049

1 groups.

2 MR. KOPTA: Thanks, that's all I have.

3 JUDGE BERG: Anything else from other

4 counsel?

5 Questions from the Bench?

6 Dr. Gabel.

7

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

9 BY DR. GABEL:

10 Q. One area, Mr. Jones. Have you been involved
11 in looking at Verizon's interoffice trunk monitoring
12 reports, you know, reports that would indicate the
13 amount of traffic that goes over interoffice facilities
14 during a 24 hour period?

15 A. Interoffice?

16 Q. Interoffice.

17 A. Yes, sir, I have.

18 Q. Okay. And do those reports indicate to a
19 traffic engineer the number of minutes that are carried
20 over each of the 24 hours of the day?

21 A. Yes, they're called trunk studies.

22 Q. And do the trunk studies also indicate the
23 number of messages over each of the 24 hours of the day?

24 A. Yes, those are called pay counts.

25 DR. GABEL: Thank you.

03050

1 JUDGE BERG: Any redirect, counsel?
2 MS. MILES: No.
3 JUDGE BERG: Any further questions?
4 All right, Mr. Jones, thank you for sticking
5 with us for another day to follow up on these questions
6 here. You're excused from the hearing.
7 THE WITNESS: Thank you.
8 JUDGE BERG: Let's be off the record.
9 (Discussion off the record.)
10 JUDGE BERG: Mr. Knowles, if you will stand
11 and raise your right hand.

12

13 Whereupon,

14

15 REX M. KNOWLES,
16 having been first duly sworn, was called as a witness
17 herein and was examined and testified as follows:

17

18

JUDGE BERG: Thank you.

19

20

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

21

BY MR. KOPTA:

22

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

24

A. My name is Rex M. Knowles, and my business
25 address is 111 East Broadway, Suite 1000, Salt Lake

03051

1 City, Utah 84111.

2 Q. And on whose behalf are you testifying today?

3 A. XO Washington.

4 Q. Did you prepare or have prepared the exhibits
5 that have been marked for identification as Exhibits
6 T-1210 through T-1213?

7 A. I have.

8 Q. Do you have any corrections or changes to
9 make to any of those exhibits at this time?

10 A. I do not.

11 Q. Are those exhibits true and correct to the
12 best of your knowledge?

13 A. They are.

14 MR. KOPTA: Your Honor, I move for admission
15 of Exhibits T-1210 through T-1213.

16 JUDGE BERG: Hearing no objection, they are
17 so admitted.

18 MR. KOPTA: And Mr. Knowles is available for
19 cross-examination.

20 JUDGE BERG: Thank you.

21 Mr. Devaney.

22 MR. DEVANEY: Thank you, Your Honor.

23

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

25 BY MR. DEVANEY:

03052

1 Q. Good morning, Mr. Knowles.

2 A. Good morning.

3 Q. John Devaney representing Qwest.

4 Mr. Knowles, I'm going to begin by questioning you about
5 the subject of compensation for interconnection
6 facilities.

7 A. Okay.

8 Q. And as I understand the dispute, it concerns
9 the extent to which Qwest and Verizon should be required
10 to pay for the interconnection facilities that XO or
11 other CLECs obtain to interconnect with the ILECs'
12 networks; is that correct?

13 A. For the purposes of terminating traffic that
14 Verizon and/or Qwest originate to XO.

15 Q. And the reverse as well, correct? Obviously
16 XO is obtaining facilities and other CLECs are obtaining
17 facilities so that they too in theory can originate
18 traffic?

19 A. That is correct, but I was just clarifying
20 that my testimony wasn't trying to get Verizon or Qwest
21 to pay for that proportion of facilities that are used
22 to terminate our traffic as well. We were expecting to
23 be compensated from the other carriers.

24 Q. Okay. Now what I want to try to do is see if
25 we can come to agreement on what Qwest is willing to

03053

1 cost share in terms of interconnection facilities.

2 A. Okay.

3 Q. So I want to ask you a few questions about
4 that. If you would turn, please, to page 12 of your
5 responsive testimony T-1210.

6 A. Yes.

7 Q. At line 17, you say that:
8 Qwest proposes cost sharing based on
9 circumstances when Qwest provides the
10 interconnection facilities outside the
11 CLEC's switching center.

12 Do you see that?

13 A. Yes.

14 Q. And that refers to entrance facilities,
15 correct?

16 A. Yes.

17 Q. And so is it your understanding that Qwest is
18 agreeing to share the costs of entrance facilities with
19 CLECs?

20 A. That is my understanding.

21 Q. Okay. So we don't have a dispute with
22 respect to that particular piece of a facility, correct?

23 A. Correct.

24 Q. Okay. And if you turn to page 13, and this
25 is the sentence that carries over to page 14, it reads:

03054

1 In these circumstances, the CLEC
2 provides the transport between its
3 switching center and the ILEC's central
4 office as well as the entrance
5 facilities in the CLEC switching center.
6 Now is it also your understanding that Qwest
7 has agreed to cost share the costs of these transport
8 facilities?

9 A. That's my understanding.

10 Q. Okay. So again, we don't have a cost sharing
11 dispute with respect to those facilities except to the
12 extent that Internet traffic is included or not in the
13 calculation of relative use; is that correct?

14 A. There are some caveats I would add to that.
15 It depends on how those facilities are being
16 provisioned. We don't have a dispute necessarily that
17 the facility type we're talking about is subject to
18 compensation. The question is at what rate on those.

19 Q. Okay.

20 A. And then on the ISP issue, I'm not positive
21 that I recall Qwest stated that they refused to pay for
22 that.

23 Q. But with respect to at least the type of
24 facility, transport facility, you agree there's no
25 dispute, that Qwest is agreeing to cost share, correct?

03055

1 A. That's correct.

2 Q. Okay. And then also at page 13 of your
3 testimony, line ten, you describe the meet point
4 arrangement; do you see that?

5 A. I do.

6 Q. Let me ask you first, would you agree that
7 the costs of meet point arrangements will vary on a
8 case-by-case basis?

9 A. I do.

10 Q. And why is that?

11 A. Because it depends on where the meet point is
12 determined to be, and it could be in 90% on one carrier
13 and 10% on the other or vice versa. It would be a case
14 specific determination.

15 Q. Are you aware that Qwest has agreed to work
16 with the CLECs on a case-by-case basis for meet point to
17 work out who pays for which portions of the facilities?

18 A. I'm generally aware that that would be the
19 case.

20 Q. Okay. So with that background, what I want
21 to be clear about is the only dispute between Qwest and
22 CLECs like XO is the extent to which there will be cost
23 sharing for collocation facilities; is that right?

24 A. There will potentially, based on what you
25 were saying earlier, be a dispute with respect to the

03056

1 type of traffic that would be included in determining
2 what facilities are subject to cost sharing. But
3 besides that, that is probably correct.

4 Q. Okay. And XO, for example, wants Qwest to
5 pay for construction costs, for example, relating to
6 collocation facilities; is that correct? I should say
7 to share in the construction costs.

8 A. This might be a good time for me to -- yes,
9 to the extent that that is a rate that is not consistent
10 with the rates that we would see for interconnection
11 facilities from the other rates that we have an option
12 to pay from.

13 And let me just take this a step further, and
14 maybe we can help shorten the total time frame we're
15 talking about this issue, because --

16 Q. Actually, I would just like you to answer, if
17 you could, the question that I posed. Is XO seeking to
18 have Qwest pay for some portion of the construction
19 costs for collocation facilities?

20 A. To the extent that the collocation facilities
21 are being used in part to provide interconnection and to
22 the extent that those collocation facilities are priced
23 in a way that is inappropriately high and would render
24 those facilities much more expensive than using what
25 Qwest is willing to pay for, then yes.

03057

1 Q. And is the same true for cable racking, that
2 XO is seeking to have Qwest pay some portion of the
3 costs of cable racking used in collocation?

4 A. The answer is the same in that if the costs
5 that Qwest is imposing upon XO to get access to that
6 cable racking is overly expensive and beyond the cost of
7 what it really should be, then yes.

8 Q. Okay. And the same position holds true for
9 multiplexing, DS1, DS3 terminations, and expanded
10 interconnection channel terminations; is that correct?

11 A. That is correct.

12 Q. Okay. It's true, isn't it, that XO and other
13 CLECs can interconnect with Qwest without collocating in
14 a Qwest central office?

15 A. It is true that you could interconnect,
16 however, that interconnection is extremely limited in
17 its applicability.

18 Q. For example, XO could interconnect at the
19 point of interconnection hole; isn't that one possible
20 method, without collocating?

21 A. Are you referring to a meet point situation?

22 Q. Yes, in that situation.

23 A. In a meet point situation, that is one
24 possible avenue.

25 Q. In addition, you could also interconnect in

03058

1 the POI hole, correct, which is as I understand it
2 different from a meet point arrangement?

3 A. That is not my understanding, no.

4 Q. That's not your understanding?

5 A. That is not my understanding.

6 Q. Okay. Now instead of -- strike that.

7 A benefit of interconnecting through
8 something other than, for example, a meet point
9 arrangement is -- a benefit of interconnecting through
10 collocation as opposed to a meet point arrangement is
11 that collocation gives XO and other CLECs other options
12 in functionality; is that correct?

13 A. That is correct.

14 Q. Okay. And looking at page ten of your
15 testimony, for example, lines five through eight, you
16 state:

17 In addition, interconnection via
18 collocation is more efficient because XO
19 uses collocation not just for
20 interconnect, but to access Qwest
21 unbundled network elements and to
22 provide an alternative source of
23 interoffice transport to other
24 companies.

25 Do you see that?

03059

1 A. I do.

2 Q. And those are benefits that XO and other
3 CLECs gain through collocation as opposed to just
4 interconnection, correct?

5 A. That is correct.

6 Q. And so when you say here that interconnection
7 via collocation is more efficient, what you really mean
8 is more efficient for XO as opposed to Qwest, correct?

9 A. I haven't made the -- I don't know that I can
10 say that it is not necessarily more efficient for Qwest.
11 My statement here was with respect to XO, but I did not
12 make a statement with respect to the efficiency
13 associated with Qwest.

14 Q. Okay. But that's my only question. Your
15 statement here when you say it's more efficient, you
16 mean it's more efficient for XO, as you stated here,
17 correct?

18 A. Correct.

19 Q. Okay. And now let's just focus on some of
20 the benefits that XO receives by collocating as opposed
21 to interconnecting at a meet point, for example. You
22 state here, I think, that one of the benefits is XO can
23 gain access to unbundled network elements, correct?

24 A. That is correct.

25 Q. And you also state here that another benefit

03060

1 is that XO can provide an alternative source of
2 interoffice transport to other companies. That's
3 another benefit from collocation to XO, correct?

4 A. That is correct.

5 Q. And is another benefit the fact that XO can
6 cross connect if it desires with other CLECs?

7 A. That is correct.

8 Q. And by cross connecting with other CLECs, XO
9 can provide services to those CLECs and in turn receive
10 services that it desires to acquire from those CLECs; is
11 that correct?

12 A. That is another correct statement.

13 Q. And those benefits that we just talked about
14 are benefits that aren't necessary for just
15 interconnection, correct?

16 A. Those benefits that you talked about are
17 what's necessary for a competitor to be viable in the
18 marketplace. They are required to get competitors'
19 customers, and if you don't have customers, there's no
20 requirement to interconnect.

21 Q. I understand.

22 A. To their --

23 Q. But with the technical respect of those
24 benefits are aren't necessary to have interconnection,
25 correct?

03061

1 A. No, but they are necessary to have any
2 competition.

3 Q. Understood. In any case, it is because of
4 those benefits that we have just talked about that XO
5 chooses to collocate as opposed to just interconnect,
6 correct?

7 A. Yes, it's required for us to have customers
8 to allow us to have a need to get interconnection
9 facilities for the terminating traffic. Without
10 customers, we would have no need, and therefore we would
11 have no facilities.

12 Q. I take it that you would agree Qwest is not
13 in a position to demand collocation in XO's central
14 offices; is that right?

15 A. I would defer that to a legal interpretation
16 of the requirements of the Act of my attorney.

17 Q. Okay. Well, is XO willing to permit
18 collocation by Qwest or Verizon in its offices?

19 A. We have allowed collocation to virtually
20 anyone who has come in and wanted to pay for it.

21 Q. Is that right?

22 A. That is correct.

23 Q. And what is XO's policy as to cost sharing
24 for companies that collocate within its central offices;
25 do you know?

03062

1 A. What do you mean by cost sharing in that
2 respect?

3 Q. Does XO pay collocation facilities that other
4 carriers install in its offices?

5 A. To date, no. However, also to date we have
6 never had an ILEC who is using those facilities to
7 provide interconnection service back to us.

8 Q. Okay. But for any carriers that have
9 collocated in XO's offices, is it correct that XO has
10 not paid any portion of the collocation facilities that
11 have been installed in those offices?

12 A. That is correct, because we have not had an
13 analogous situation.

14 Q. Okay. Changing the subject for a moment,
15 Internet calls, would you agree with me that Internet
16 calls placed from Washington have to be routed to remote
17 hubs located on the Internet backbone?

18 A. I'm not a technical witness on it. I don't
19 know exactly the type of infrastructure that Internet
20 hubs are, that kind of topology that's used in writing
21 those networks.

22 Q. Okay.

23 A. It's my general assumption, but I'm not an
24 expert in that area.

25 Q. Okay. Do you know if any remote hubs are

03063

1 located in the state of Washington?

2 A. I am not aware.

3 Q. You are not aware of any, or you just don't
4 know?

5 A. I just don't know.

6 Q. Okay. And will you agree that most Internet
7 calls placed in Washington have as their ultimate
8 destination web sites that are located outside
9 Washington in other states or other countries?

10 A. I do not know that.

11 Q. You don't know that?

12 A. I do not know that. If I can explain, my
13 understanding is that there are, and again I'm not an
14 expert in this area so, but my understanding is there is
15 a bunch of information that are contained on local data
16 bases that don't require going outside of the local
17 jurisdiction.

18 Q. But you have no concept of what percentage of
19 calls actually --

20 A. I have never done a study on that issue.

21 MR. DEVANEY: Your Honor, may I have one
22 moment to confer?

23 JUDGE BERG: Yes, sir.

24 MR. DEVANEY: Thanks very much.

25 JUDGE BERG: Let's be off the record.

03064

1 (Discussion off the record.)

2

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

4 BY MS. ANDERL:

5 Q. Good morning, Mr. Knowles.

6 A. Good morning.

7 Q. I'm Lisa Anderl representing Qwest, and your
8 counsel has graciously agreed to let both Mr. Devaney
9 and I cross-examine you today.

10 A. It's always a pleasure.

11 Q. You can take that up with him later.

12 Mr. Knowles, the questions that I ask you
13 about your testimony are all going to be about your
14 October testimony, which has been marked and admitted as
15 T-1210, just so you have that in mind.

16 A. Okay.

17 Q. You have been a witness for XO in Part A of
18 this docket; is that right?

19 A. That's correct.

20 Q. And you have also been a witness for Nextlink
21 in Docket 960369?

22 A. That is correct.

23 Q. Have you read the Commission's 13th
24 Supplemental Order in this docket from Part A?

25 A. I know I have, but I can't remember

03065

1 specifics.

2 Q. Do you recall that as the January 31st order
3 which decided the collocation and OSS issues, among
4 others?

5 A. Yes.

6 Q. Have you read the 8th and 17th Supplemental
7 Orders from Docket 960369?

8 A. I have read the orders, but I don't remember
9 which order was dealing with which issues.

10 Q. And did you read the later orders that
11 discussed de-averaging the loop?

12 A. Yes.

13 Q. Back to the Part A order, and the following
14 questions are going to be about OSS cost recovery so you
15 know.

16 A. Okay.

17 Q. Do you recall that the Commission's Part A
18 13th Supplemental Order allows Qwest to recover certain
19 OSS transition costs?

20 A. Generally, yes.

21 Q. Do you recall that to be in a total amount of
22 \$5.5 Million?

23 A. I don't recall the specifics.

24 Q. Do you recall the rate that Qwest is allowed
25 to apply?

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1 A. Not off the top of my head.
2 Q. Do you recall the cost recovery methodology,
3 in other words how Qwest is allowed to apply the charge?
4 A. Generally, yes.
5 Q. And is that per LSR?
6 A. Correct.
7 Q. Do you also recall that the Commission
8 permitted OSS cost recovery for modifications to Qwest's
9 OSS to permit line sharing?
10 A. I do recall that.
11 Q. And would you accept subject to your check
12 that the rate for OSS transition cost recovery permitted
13 for Qwest is \$3.27 per LSR?
14 A. That strikes my memory as being reasonably
15 accurate, yes.
16 Q. Now in Part A, XO advocated that one possible
17 method of OSS cost recovery would be through an end user
18 surcharge; is that right?
19 A. That is correct.
20 Q. That position was not adopted?
21 A. You are correct.
22 Q. Would you agree with me that Qwest's OSS or
23 access to Qwest's OSS is an unbundled network element?
24 A. That's my understanding of the Act.
25 Q. Does XO also have operational support

03067

1 systems?

2 A. It does.

3 Q. Are you aware of whether the Act requires XO

4 to allow other carriers to access its OSS?

5 A. Not directly, no.

6 Q. You --

7 A. I mean indirectly it's required to have
8 access both ways in order for an order to be provisioned
9 across one OSS to the other OSS, so there is some
10 interactivity.

11 Q. But it's not access in the same method as
12 that required from the incumbent, is it?

13 A. Correct.

14 Q. Have you ever designed an operational support
15 system for a large telecommunications carrier?

16 A. Thankfully, no.

17 Q. Have you ever modified an operational support
18 system for a large telecommunications carrier?

19 A. No.

20 Q. Have you ever purchased a software upgrade
21 that was to be a part of a modification to an
22 operational support system for a large
23 telecommunications carrier?

24 A. I personally have not.

25 Q. Did you read Ms. Albersheim's testimony in

03068

1 this Part B?

2 A. I reviewed all the testimony, so I know I
3 have, although I don't remember the specifics to that
4 reference.

5 Q. Do you recall testimony discussing additional
6 costs that Qwest has incurred to modify its OSS to
7 comply with the UNE remand requirements?

8 A. Generally.

9 Q. And do you also recall testimony that
10 identifies potential additional OSS modification costs
11 depending upon how line splitting is implemented?

12 A. Generally.

13 Q. Is it your testimony in this docket that
14 Qwest can modify its OSS to comply with the UNE remand
15 or line splitting without incurring any additional
16 costs?

17 A. No.

18 Q. Assume that Qwest does incur costs to modify
19 its OSS to comply with the requirements of the UNE
20 remand order and the line splitting; are you contending
21 that Qwest should not recover those costs?

22 A. No.

23 Q. Changing subjects, Mr. Knowles, let's talk
24 about UNE conversions.

25 A. Okay.

03069

1 Q. And this is in your testimony T-1210, pages
2 17 through 20.

3 A. Yes.

4 Q. Let me make sure that I have the context
5 defined for the record here. Is it correct that the UNE
6 conversions from tariffed services that you're talking
7 about are limited to situations where XO is currently
8 the customer of record for the tariffed service and
9 wishes to remain the customer of the underlying
10 facilities and convert them to UNEs?

11 A. That is correct.

12 Q. Are you familiar generally with portions of
13 the UNE Remand Order that permit CLECs to ask for such
14 conversion?

15 A. Yes.

16 Q. And are you also aware that the FCC issued
17 both a supplemental order and a supplemental order of
18 clarification addressing those issues?

19 A. Yes, I am.

20 Q. Is it correct that the FCC in those three
21 orders laid out certain sets of circumstances under
22 which XO could request those types of conversions?

23 A. With respect to EELs in particular, yes.

24 Q. And is it correct that the general
25 circumstance which must exist in order for an ILEC to be

03070

1 obligated to do such a conversion is that there must
2 either be substantial or significant amounts of local
3 traffic over the facilities?

4 A. And that is specifically true for EELs in
5 that order, yes.

6 Q. The type of tariffed services that XO wants
7 to convert to UNEs, is that limited to special access or
8 private line in your testimony here?

9 A. Yeah, that's primarily where XO has its
10 issues, yes.

11 Q. And is the conversion -- strike that.

12 The UNEs to which you wish to convert those
13 services include both EELs and DS1 and DS3 capable
14 loops; is that correct?

15 A. Yes, EELs and high capacity loops are the
16 ones in particular we were looking at.

17 Q. Does XO currently purchase special access or
18 private line services from Qwest under a tariff?

19 A. Yes.

20 Q. And is that generally the FCC tariff?

21 A. Generally.

22 Q. From reading Ms. Million's testimony in this
23 docket, particularly her rebuttal testimony, are you
24 aware that Qwest agreed for purposes of conversion from
25 retail service to the UNE platform Qwest is willing to

03071

1 use the previously approved customer transfer charge?

2 A. That is my understanding, yes.

3 Q. And are you also aware that Qwest has a
4 customer transfer charge approved by the Commission for
5 purposes of converting or for purposes of resale to
6 private line specifically?

7 A. Yes.

8 Q. Have you been advised by your counsel that
9 Qwest has represented earlier in this proceeding that it
10 is willing to use the Commission approved customer
11 transfer charge for private line as the nonrecurring
12 charge for conversion of private line to UNEs when the
13 CLEC is the customer for the private line and the
14 subsequent UNEs?

15 A. That is my understanding.

16 Q. And would you accept subject to your check
17 that that Commission approved rate is approximately \$44
18 for the first line and \$26 for each additional line?

19 A. Yes.

20 Q. Is that proposal acceptable to XO for this
21 proceeding?

22 A. It is.

23 Q. Now you also mentioned in your testimony the
24 issue of a retroactive surcharge. That's at pages 18
25 and 19. Do you recall that testimony?

03072

1 A. Yes, I do.

2 Q. When did Qwest first mention that surcharge
3 to you, or was it Qwest or U S West?

4 A. It was U S West at the time. It would have
5 been approximately one year ago when we were starting to
6 try to get our conversion request through to Qwest, and
7 they were coming back with the issues that we were going
8 to have to deal with. One of them was this issue.

9 Q. Mr. Knowles, have you been provided by your
10 counsel with a document that has been marked for
11 identification as Exhibit 1214?

12 A. I have. I didn't bring it up to the stand
13 with me.

14 MS. ANDERL: May I approach, Your Honor?

15 JUDGE BERG: Mr. Kopta, do you have a copy
16 for --

17 MR. KOPTA: If I can stand next to him, then
18 we can certainly share one.

19 JUDGE BERG: Well, let me check, Ms. Anderl,
20 do you have a spare copy?

21 THE WITNESS: I've got one in my bag.

22 MS. ANDERL: I do have a spare.

23 JUDGE BERG: All right, why don't we just do
24 that.

25 THE WITNESS: Thank you.

03073

1 MS. ANDERL: It's a spare because I have
2 memorized it.

3 BY MS. ANDERL:

4 Q. Do you recognize that Exhibit 1214 as an
5 excerpt from Qwest's FCC access tariff?

6 A. Yes.

7 Q. And do you see that it's page numbered both
8 on the top and then on the bottom, and the bottom
9 numbers are pages one through five?

10 A. Yes.

11 Q. And would you turn to pages four and five.

12 A. (Complies.)

13 Q. Is it your understanding that the charges
14 identified on those pages four and five form the basis
15 for the surcharge proposal that was made to you
16 approximately one year ago?

17 A. That's my understanding of the basis for
18 their statement, yes.

19 Q. Now Qwest has not proposed that surcharge in
20 this docket, has it?

21 A. Not to my understanding.

22 Q. And you're not asking this Commission to rule
23 on the applicability of Qwest's FCC tariff to any
24 particular UNE conversion, are you?

25 A. The only exception I would make to that is

03074

1 that the reason that we have been purchasing out of the
2 FCC tariff is because of our inability to purchase out
3 of the interconnection agreement high capacity loops,
4 which we believe we have been entitled to for some
5 period of time. So we have made purchases out of the
6 FCC tariff due to the inability to purchase elsewhere.
7 So to the extent that that was being applied to circuits
8 which we think should be looked at and viewed at as
9 local but we have been required to buy them out of
10 interstate, then we think it should be in this
11 Commission.

12 Q. As opposed to the FCC?

13 A. As opposed to the FCC.

14 Q. Now XO does currently -- has XO converted any
15 special access or private line to UNEs yet?

16 A. We have not been able to.

17 Q. Are you in the process of submitting orders
18 to do that?

19 A. We are attempting to, yes.

20 Q. And are there some issues around the type of
21 certification that's required in connection with the
22 submitting and processing of those orders?

23 A. The issues aren't for the most part about the
24 certification. The issues are mostly about things such
25 as the restriction on commingling of different types of

03075

1 services, Qwest's classification of interconnection
2 trunks as a finished service and their lack of
3 willingness to allow us to use the same facilities for
4 both interconnection services and unbundled network
5 elements, and a variety of things like that, but not
6 necessarily on the identification of the local. We
7 concede that that's a requirement, and we don't have an
8 issue with that.

9 Q. Okay.

10 A. Requirement.

11 Q. And the other issues that you just
12 identified, is it your understanding that most, if not
13 all, of those issues are currently being discussed in
14 one or more state proceedings dealing with the 271
15 issues?

16 A. That is correct.

17 Q. Mr. Knowles, let's talk about poles, ducts,
18 and conduits for a little while.

19 A. Oh, boy.

20 Q. And that's your testimony starting on page
21 20.

22 MS. ANDERL: Your Honor, before I leave that
23 other area, I would move the admission of Exhibit 1214.

24 MR. KOPTA: No objection.

25 JUDGE BERG: It's admitted.

03076

1 And, Ms. Anderl, why don't we go ahead and
2 take the morning break, and we will resume at 11:00 with
3 poles, ducts, and conduits.

4 (Recess taken.)

5 BY MS. ANDERL:

6 Q. Mr. Knowles, poles, ducts, and conduits.

7 A. Yes.

8 Q. Exhibit 1210, you state at page 20, lines 20
9 through 22, that Qwest has provided no cost support or
10 any other evidence that identifies, much less
11 quantifies, the cost Qwest incurs to process requests
12 for access. Is that correct?

13 A. That is correct.

14 Q. Now prior to the time that you filed this
15 testimony in October, had you reviewed Ms. Million's
16 direct testimony?

17 A. Yes.

18 Q. Had you also reviewed the exhibits that were
19 attached to her testimony including specifically the
20 nonrecurring cost study?

21 A. Briefly.

22 MS. ANDERL: I'm going to ask the judge if I
23 might approach the witness to hand him a portion of what
24 has previously been identified and admitted as Exhibit
25 C-1002.

03077

1 JUDGE BERG: Yes. Is this a complete copy of
2 C-1002?

3 MS. ANDERL: It's not, because that's 322
4 pages, and I'm going to hand the witness pages 311
5 through 322.

6 JUDGE BERG: All right.

7 MS. ANDERL: Mr. Kopta, would you like to --

8 MR. KOPTA: I've got one.

9 THE WITNESS: Thank you.

10 JUDGE BERG: And, Ms. Anderl, I will just
11 ask, do you think the Bench will be able to follow your
12 line of questioning without having a copy in front of it
13 as well?

14 MS. ANDERL: Yes, although I would certainly
15 be happy to wait if people want to get to that page in
16 the exhibit.

17 JUDGE BERG: Let's just --

18 MS. ANDERL: It's page 311 of 322, and the
19 exhibit number is C-1002.

20 JUDGE BERG: Why don't you go ahead and start
21 and --

22 CHAIRWOMAN SHOWALTER: Well, wait, as long as
23 we're going to get there, 1002?

24 MS. ANDERL: Yes.

25 JUDGE BERG: Page 311.

03078

1 CHAIRWOMAN SHOWALTER: Thanks.

2 BY MS. ANDERL:

3 Q. Mr. Knowles, do you have page 311 of 322 in
4 front of you?

5 A. Yes.

6 Q. Would you agree that Exhibit C-1002 is the
7 original nonrecurring cost study sponsored by Qwest in
8 this docket and filed by Ms. Million on August 4th?

9 A. It appears so, yes.

10 Q. Can you read the line in bold under work item
11 A on page 311?

12 A. Pole inquiry feet per mile.

13 Q. And do you see listed below that six
14 individual work items to be performed within the
15 infrastructure availability center?

16 A. I do.

17 Q. And do you see that for each work item,
18 there's a time in minutes listed?

19 A. Yes.

20 Q. And that there's also a probability of
21 occurrence listed?

22 A. Yes.

23 Q. And that in column H there is a dollar figure
24 which represents the cost per labor hour?

25 A. Yes.

03079

1 Q. Turning to page 314 of 322, do you see that
2 that represents a similar cost detail summary for the
3 interduct inquiry fee per mile?

4 A. Yes.

5 Q. And then on page 317, there is an
6 identification of a labor activity for a field
7 verification fee poles per pole?

8 A. Yes.

9 Q. And then finally on page 320, do you see that
10 there is an identification of work activities in order
11 to perform the field verification for manholes on a per
12 manhole basis?

13 A. I do.

14 Q. Is it correct that XO is one of the joint
15 CLECs who are sponsoring the testimonies of Mr. Klick
16 and Mr. Weiss?

17 A. Yes.

18 Q. And while those exhibits and testimonies have
19 not yet been admitted, do you recall that each of those
20 witnesses undertook an analysis of Qwest's nonrecurring
21 cost studies?

22 A. Yes.

23 Q. And that Mr. Weiss in particular restates
24 Qwest's work times and probabilities for a number of the
25 nonrecurring costs?

03080

1 A. Generally.

2 Q. Is it also correct or would you accept
3 subject to your check that neither of those witnesses
4 adjusts either the work times or the probabilities for
5 the four nonrecurring activities that we have just
6 discussed, the pole inquiry fee, the per mile, the
7 interduct inquiry fee per mile, the field verification
8 fee poles per pole, or the field verification fee for
9 manholes per manhole?

10 A. That is my understanding, based on their area
11 of testifying, they have not addressed that.

12 Q. Lastly, Mr. Knowles, you discuss the
13 distinction between the fees that Qwest proposes when
14 Qwest's own technicians perform these field
15 verifications or inquiries and the situation where the
16 CLEC wishes to perform that activity themselves. Do you
17 recall that testimony?

18 A. Yes.

19 Q. And it's correct, is it not, that Qwest has
20 not proposed rates for those occasions where the CLEC
21 does its own field verification?

22 A. That is my understanding, and after looking
23 at this, I guess that continues to be my understanding,
24 yes.

25 Q. Okay. Now would you agree with me that

03081

1 Qwest's technicians and outside plant personnel will
2 still be involved to some extent in a field verification
3 process even if the CLEC performs its own field
4 verifications with its own employees?

5 A. The only caveat, the only difference I would
6 say to that statement, so in general yes, but the only
7 issue I have in particular is with the field
8 verification associated with manholes. In looking -- at
9 the time that I prepared the testimony, I had not
10 particularly paid attention to this, as you pointed out,
11 but I have since been able to review this and look at
12 some of the information here.

13 And with respect to manholes in particular, I
14 have gone to our engineering experts within XO and said,
15 what is involved in the review of manholes to get access
16 to conduit. And with respect to that, I have found that
17 there is substantial differences in what is put forward
18 on page 320 of 322 versus what is really required.

19 Q. Okay. Now the question that I had asked you,
20 Mr. Knowles, though was relative to when the CLEC is
21 performing the field verification, and my question was
22 simply, did you agree that Qwest personnel would still
23 need to be involved to some extent even if the CLEC were
24 performing the verification?

25 A. I'm not certain with respect to manholes per

03082

1 manhole whether that would be required or not.

2 Q. Okay. Now you have stated that Verizon's
3 proposal to negotiate and arbitrate, if necessary, the
4 appropriate level of those fees is acceptable to XO; is
5 that correct?

6 A. I'm sorry, can you refer me --

7 Q. Page 22, lines 8 through 11.

8 A. Okay, here we are, okay, that's correct.

9 Q. And to the extent that Qwest has not yet
10 proposed rates in this docket for CLEC field
11 verification, would it be acceptable to XO if Qwest were
12 also willing to negotiate those rates and then arbitrate
13 them if necessary?

14 A. Yes.

15 MS. ANDERL: That's all that I have, Your
16 Honor.

17 JUDGE BERG: Mr. Edwards.

18 MR. EDWARDS: Thank you, Your Honor.

19

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

21 BY MR. EDWARDS:

22 Q. Mr. Knowles, I'm Jeff Edwards representing
23 Verizon. You and I have, I think, talked in the past.

24 A. We have, thank you.

25 Q. I have just a couple of areas to follow up

03083

1 on. The first has to do with questions that Mr. Devaney
2 had asked you about cost sharing for certain facilities.

3 A. Yes.

4 Q. And he focused on the collocation area, which
5 I also will focus on, and I want to make sure I
6 understand your testimony in response to some of
7 Mr. Devaney's questions. And I understood you to say
8 that you believe that there should be cost sharing for
9 collocation facilities to the extent collocation is used
10 to provide interconnection and is priced inappropriately
11 high; was that your testimony?

12 A. That is correct.

13 Q. Conceptually you would agree with me,
14 wouldn't you, that whether or not there should be cost
15 sharing for collocation facilities should be
16 disassociated or irrelevant with respect to whether the
17 prices for those facilities are high or low, shouldn't
18 they?

19 A. The issue in my opinion is one of clerical
20 ease in dealing with it. To the extent that the
21 facilities are actually being used to provide the
22 interconnection, I think the facilities being used are
23 the appropriate cost to take into consideration when
24 you're making that determination.

25 However, for the purposes of simplicity, if

03084

1 we're able to use a surrogate, for instance, the
2 interconnection trunk pricing that we've got separately
3 available, if that surrogate is reasonably in the ball
4 park of the costs that we're talking about to do it with
5 -- the way it's actually provisioned with collocation,
6 then it's fine to do that kind of a change and use the
7 actual facilities, I mean use the interconnection
8 facility pricing as a surrogate for what we actually do
9 to get the interconnection.

10 But if that pricing for interconnection is
11 inappropriately priced so large that there's a huge
12 disparity between the charges that we're given to get
13 collocation versus what's required for interconnection
14 trunks, then it's not appropriate.

15 Q. So is the logical conclusion of that position
16 that if the collocation prices are not "inappropriately
17 high", then there should not be sharing for the
18 collocation costs?

19 A. If the collocation costs are reasonable, then
20 XO is willing to use the interconnection trunking
21 charges as a surrogate for ease and simplicity, and that
22 would be fine.

23 And further note, the Commission recent order
24 on the collocation costing issue we think puts into
25 place reasonable prices for collocation. And to the

03085

1 extent that that Commission decision is maintained, we
2 would be fine with using interconnection facility
3 trunking as the price to go forward.

4 Q. Actually, you have anticipated my next
5 question, because you understand that there are
6 collocation costs and prices that have been recommended
7 by the Commission or that have been decided by the
8 Commission?

9 A. That is correct.

10 Q. Then I take it from your last answer then
11 that based on XO's view of the reasonableness of those
12 costs and prices that your recommendation with respect
13 to cost sharing on collocation elements is moot?

14 A. To the extent that the Commission's decision
15 is maintained.

16 Q. Just to follow up on some questions that
17 Ms. Anderl asked you about OSS cost recovery.

18 A. Certainly.

19 Q. Her questions were specific to Qwest, as I
20 would anticipate them to be, but her conclusory question
21 was whether you would agree or whether it's XO's
22 position in this docket that Qwest should not be allowed
23 to recover OSS costs incurred beyond those addressed in
24 Part A, or stated another way should not be allowed to
25 recover its OSS costs for UNE remand issues and line

03086

1 splitting issues. And I believe you said that was not
2 XO's position with respect to Qwest; is that correct?
3 Let me ask it another way.

4 Is it your position or is it XO's position
5 that Verizon should not be allowed OSS cost recovery for
6 UNE remand and line splitting issues?

7 A. That is not our position.

8 Q. Let me ask you to look at your rebuttal
9 testimony, which is Exhibit T-1213, page 5. Are you
10 there, sir?

11 A. I am.

12 Q. And let me ask you to focus I guess on lines
13 20 over to line 2 of the next page. The section begins
14 on line, it's kind of 21 1/2, I guess it's 21, where you
15 talk about CLECs ordering DS1s and DS3 circuits out of
16 the ILEC special access tariffs; do you see that?

17 A. I do.

18 Q. Am I correct that your testimony here is that
19 when you say CLECs, are you being specific to XO or XO
20 and others?

21 A. I am speaking in the general sense here.

22 Q. All right. Is your testimony then there that
23 the CLECs have been ordering certain services out of
24 special access tariffs and then using those services to
25 provide local service?

03087

1 A. That is correct.

2 Q. And you would agree with me that the services
3 being offered out of the special access tariffs are not
4 intended to provide local service; is that correct?

5 A. My understanding of special access services
6 is that they can be used for that as well as other
7 activities, not that they are limited. The reason that
8 we're using special access service to provide services
9 that are primarily local, but they also have non-local
10 aspects to them, but they're primarily local is because
11 we have had difficulty in getting access to what we
12 consider to be the obligation of the ILEC to provide,
13 which is access to high capacity loops. To the extent
14 that we haven't been able to get those via the
15 interconnection agreements, we have been kind of pushed
16 to get them out of whatever agreement or whatever tariff
17 we possibly can, including the FCC tariffs.

18 Q. To the extent that those services are
19 available through interconnection agreements as
20 unbundled network elements, for example, if those
21 services are purchased out of the special access
22 tariffs, would you agree with me then that the purchaser
23 is able to bypass the UNE pricing structure that would
24 apply to those services?

25 A. I don't know what you mean by bypass.

03088

1 Q. Well, presumably if those services are being
2 purchased out of the special access tariff, the prices
3 or charges relating to those services are from the
4 special access tariff; is that correct?

5 A. That is correct.

6 Q. And if those same services are available as
7 unbundled network elements, then the prices that apply
8 under the Telecom Act with respect to the purchase of
9 UNEs are being bypassed; is that correct?

10 A. To the extent that I think that the operative
11 word you said was if you can do that. The problem that
12 we have got is we haven't been able to do that with most
13 of the ILECs is to get access to high capacity loops via
14 the interconnection agreements that we have negotiated
15 for a variety of reasons. And due to that, we have not
16 been able to take advantage of the pricing that we are
17 entitled to for unbundled network elements, so we have
18 been required to pay higher prices to get the same
19 functionality via another avenue.

20 Q. The sentence that begins also on the bottom
21 of page five:

22 The circuit's already in place, and the
23 CLEC has already paid a nonrecurring
24 charge to order the circuits and have
25 them installed.

03089

1 Do you see that?

2 A. I do.

3 Q. And is your reference there to a nonrecurring
4 charge that's provided by the special access tariff?

5 A. That's correct.

6 Q. Have you made a comparison between the or
7 have you compared the nonrecurring charges from the
8 special access tariff to the nonrecurring charges being
9 proposed in this docket for DS1s or DS3s by Verizon, for
10 example?

11 A. I have not. Well, I have reviewed them
12 generally. I don't remember them specifically. But if
13 my guess is correct, their nonrecurring charges for UNE
14 unbundled network elements are probably substantially
15 higher. But I was referring to, when I'm talking about
16 the overall cost, the long-term cost associated with the
17 unbundled network elements in general from ILECs.

18 Q. Would you know as you sit here today whether,
19 in fact, there are any nonrecurring charges applicable
20 under the special access tariff for DS1 or DS3?

21 A. With respect to Verizon's tariff?

22 Q. Yes, sir.

23 A. I would have to double check that.

24 Q. So you don't know today?

25 A. I only assume.

03090

1 Q. Okay. And with respect to both the
2 nonrecurring charges and the recurring charges.

3 A. Yes.

4 Q. Out of the special access tariff, do you
5 know, and again speaking with respect to Verizon, do you
6 know whether those charges are TELRIC or TELRIC based?

7 A. I'm sorry, which, in the special access
8 tariff?

9 Q. Yes, sir.

10 A. I don't know what cost basis Verizon would
11 have used to develop their rates for the FCC tariff. I
12 don't believe they're under the same obligation as they
13 are to use TELRIC as the basis as they are for UNEs, for
14 instance.

15 Q. Let me ask you to look at page 20 of your
16 response testimony, T-1210. And the testimony here is
17 -- that's actually at the bottom of page 19, and it
18 carries over to page 20. It has to do with your
19 position, disagreement I guess between you and Mr. Lee,
20 regarding whether a CLEC or XO should have to pay
21 termination liability for the conversion of a service
22 out of the -- purchased out of the special access tariff
23 to a UNE, correct?

24 A. It has a caveat in that the termination
25 liability as mentioned on page 20, lines 2 and 3, the

03091

1 termination liability should be no higher than the
2 amount needed for Verizon to recover its cost to provide
3 the facilities. But with that caveat, yes.

4 Q. Am I correct that what practically happens
5 here is that the CLEC and Verizon would negotiate a
6 long-term contract with respect to the service being
7 purchased, and that contract would contain in it a
8 termination liability provision?

9 A. Which contract are you referring to?

10 Q. The contract with respect to the special
11 access services being purchased. For example, let me
12 refer you to line 17 of page 19.

13 A. Yes.

14 Q. You use the term long-term contract there.

15 A. Mm-hm.

16 Q. And what contract are you referring to?

17 A. Okay. To the extent that a contract was
18 required to obtain special access circuits, that's
19 different than what the tariff would be.

20 Q. Right.

21 A. That would be a contract I'm referring to.

22 Q. All right. So you're referring to where
23 there is a -- is the contract that you're referring to
24 there an interconnection agreement?

25 A. No.

03092

1 Q. Different contract?

2 A. Correct.

3 Q. And that contract then would be specifically
4 applicable to the special access services?

5 A. Yeah, what we found with dealing with most
6 ILECs is that when we're dealing with the special access
7 circuits and there's no facilities, many times they will
8 build it and just do it under their normal FCC tariff.
9 In some scenarios, they will come to us and say, this
10 requires a bigger commitment for us to incur the costs
11 to build the facilities to provide this service. In
12 that scenario, we have on many occasions entered into
13 contracts to say we will maintain the service for a
14 three year term. Typically they're a term agreement
15 saying we will continue to pay for this for a period of
16 time. So they have an opportunity to recover the costs
17 associated with the build of that facility.

18 Q. And presumably when the contracts are entered
19 into, the parties could have negotiated and entered into
20 an agreement with respect to limitations or caveats, if
21 you will, as to the applicability of that termination
22 liability, correct?

23 A. The possibility is there, however, in the
24 situation we're describing, the power in the negotiation
25 is very one sided.

03093

1 Q. Often true in negotiations, Mr. Knowles.
2 In effect, what you're asking the Commission
3 to do here is add a provision or to rewrite the contract
4 that's been entered into; is that correct?

5 A. Well, what I'm suggesting here is that when
6 we have purchased special access circuits that really
7 should have been able to be purchased as unbundled
8 network elements and where the -- let me take it in two
9 parts.

10 The first part is where we have purchased
11 special access circuits where we would like to have
12 purchased unbundled network elements but were not able
13 to and we want to convert those to an unbundled network
14 element, there shouldn't be a termination liability
15 associated with that. The facility is still being used,
16 its not going away, we're still compensating the company
17 for the cost of that based on what the Commission has
18 determined.

19 If there is a special circumstance where an
20 extra construction is required and a special contract is
21 required to build that facility, that we shouldn't be
22 required to continue to pay prices which are higher than
23 the unbundled network element prices once the time frame
24 has passed where the ILEC has been able to have an
25 opportunity to recover the costs associated with that

03094

1 build that would be extraordinary to a normal situation.

2 So, for instance, if the scenario we're
3 talking about is one where there's facilities that are
4 lacking and Verizon would need to go out and build, then
5 Verizon wants to come to XO and say, in order to make it
6 worth our while, you need to hold this facility at these
7 rates and terms for one year. XO wouldn't have a
8 problem with maintaining those at that price for one
9 year with one caveat, and that is that there are other
10 restrictions on the use of special access circuits.

11 And this -- I'm getting back to the
12 commingling issue I discussed earlier, which I talked to
13 Mrs. Anderl about. To the extent that we're providing
14 local service over special access circuits, we aren't
15 able to use that facility on an unbundled network
16 element platform using -- or using their transport and
17 MUXing, and so we've got restrictions that are against
18 us in that respect.

19 My position is that we should be able to
20 classify these as unbundled network elements for
21 purposes of provisioning and for network efficiency.
22 But yet if there is a special construction required and
23 that means there's a three year or a one year term that
24 has pricing that's associated with that, that those
25 would be maintained, there wouldn't be a termination

03095

1 liability just because we want to be able to treat it as
2 an unbundled network element for purposes of
3 provisioning and other restrictions that might be
4 applied.

5 Q. Let me ask a couple of follow-up questions.
6 You would agree with me that if special construction is
7 required, then it's not something that could have been
8 provided as a UNE?

9 A. I don't agree with that, but I agree that the
10 ILECs in the state have refused to provide it as a UNE,
11 and therefore we were required to order as a special
12 access circuit to be able to obtain it.

13 Q. And would you agree with me that if the
14 service is converted to a UNE, that then there are no
15 restrictions on the CLEC with respect to the termination
16 of that service or the termination of the use of that
17 service?

18 A. As I mentioned in my testimony, I think that
19 there is reasonable restrictions to that, which means
20 that we shouldn't require that the ILEC not get
21 compensated for the construction costs or the extra
22 costs associated with the recovery of that facility.

23 Q. So presumably then, you would agree that the
24 CLEC should nevertheless retain responsibility for the
25 full cost, whatever it is, of the construction of the

03096

1 facilities as well as their conversion?

2 A. What I'm saying is that the CLEC, at least
3 XO, would be willing to abide by the same rates that the
4 ILEC would charge any retail customer to get the same
5 construction accomplished.

6 Q. That may be where I'm not sure I understand
7 you. Because if the construction is specific to a CLEC
8 request for a special access service and then it's
9 converted to a UNE, what I understand you to be saying
10 is that the rates should stay the same, but the ultimate
11 recovery by the ILEC might differ?

12 A. I think we're on different tracks here.

13 Q. Okay, help me, if you will.

14 JUDGE BERG: And, Mr. Knowles, let me just
15 say sometimes it's hard for me to follow some of your
16 responses because you're not beginning with a yes or a
17 no response followed by either a restatement or an
18 explanation. So if possible in response if you could
19 make a yes or no, it might help provide some context for
20 the explanation to follow.

21 THE WITNESS: Okay.

22 A. Could you restate the question?

23 BY MR. EDWARDS:

24 Q. Yes, sir. Under the contract applicable to
25 the special access services, the termination liability

03097

1 provision is inserted so as to give some protection to
2 the ILEC that it will recover the special construction
3 costs related to whatever the service is, correct?

4 A. That's my understanding.

5 Q. All right. Now if that service is converted
6 to a UNE, I had asked whether there was any restriction
7 on when the CLEC might terminate the use of that
8 service?

9 A. My response is that I think that if there was
10 special construction required that the CLEC can and
11 should be -- maintain the same pricing they paid under
12 the special access arrangement for that term, but have
13 it converted to an unbundled network element for
14 purposes of combinations and other applicable operations
15 from an unbundled network element perspective. And then
16 at the termination of the term, that the pricing should
17 revert back to an unbundled network element pricing as
18 well.

19 Q. But when you say pricing for that term, are
20 you talking about the recurring rate?

21 A. Yes.

22 Q. And then would you agree with me that if your
23 proposal were adopted, then the potential exists that
24 the ILEC would have a shortfall with respect to the
25 recovery of those costs that would have been protected

03098

1 against under the contract?

2 A. No.

3 Q. Why is that?

4 A. Because if the contract we're talking about
5 says you will pay this nonrecurring charge and a
6 separate monthly recurring charge and you're required to
7 maintain the service for 12 months, I have agreed to all
8 of those stipulations that you would have required of
9 anyone else. At the end of that 12 months, any customer
10 could disconnect altogether, and Verizon would be in a
11 situation where they would get no additional recovery.
12 What XO is stating is that after the end of that 12
13 months, we would revert back to unbundled network
14 element pricing for the remainder of the use of that
15 facility.

16 Q. All right. Let me pose it as a hypothetical
17 then, let's use the 12 months. Suppose XO and Verizon
18 enters into a contract for the kinds of facilities that
19 we're talking about. And that contract says that XO
20 agrees to use these facilities for a minimum of 12
21 months, and that if at the end of 6 months it wants to
22 terminate the contract it has to pay termination
23 liability, right?

24 A. Okay.

25 Q. All right. Now suppose at the end of four

03099

1 months, XO converts that service to a UNE, all right?

2 A. Okay.

3 Q. And the same recurring rates apply, all
4 right?

5 A. Okay.

6 Q. And at the end of five months, XO terminates
7 the service, all right?

8 A. Okay.

9 Q. If I understand your proposal, at the end of
10 five months when XO terminates the service, Verizon does
11 not get any termination liability payment?

12 A. That is not what I said.

13 Q. All right. Then I don't understand the
14 proposal.

15 A. I said that XO, whether it was purchased --
16 whether it was classified as a special access service or
17 an unbundled network element would pay for the full --
18 would have a requirement to hold that circuit for 12
19 months at the prices that were originally discussed on
20 the retail side. After that 12 months, the pricing
21 would revert back to unbundled network element pricing.

22 This is, of course, specific to those
23 situations where, you know, special construction is
24 required and you have to enter a contract to make that
25 happen.

03100

1 Q. So the proposal then is that whatever the
2 term of the contract is would be applicable to the
3 service as provided as a UNE?

4 A. That is correct.

5 MR. EDWARDS: That's all the questions I
6 have, Mr. Knowles, thank you.

7

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

9 BY MR. TRAUTMAN:

10 Q. Good morning Mr. Knowles.

11 A. Good morning.

12 Q. I'm Greg Trautman, Assistant Attorney General
13 for Commission Staff. The questions I have relate to
14 your rebuttal testimony, which has been marked as
15 T-1213.

16 A. Yes.

17 Q. And turning to page 1 of that testimony on
18 lines 18 and 19, you state:

19 XO generally supports the positions of
20 Commission Staff as described in
21 Dr. Blackman's testimony with one
22 exception.

23 Let me ask, Mr. Blackman in his testimony, I
24 will just read a sentence from this testimony, which was
25 T-1230 at page ten, line four, he stated:

03101

1 The standard for reciprocal compensation
2 rates is the cost that the originating
3 carrier would have incurred had the call
4 stayed on its own network.

5 Do you agree with that position?

6 A. No, I don't believe so. I believe that the
7 costs that we suggest are appropriate are those costs
8 that would be incurred to terminate that cost --
9 terminate that call within the comparable geographic
10 area that the -- that the ILEC tandem serves, and
11 therefore, the ILEC tandem rate would apply when a CLEC
12 terminates it over that same comparable area. So it may
13 be, but not necessarily, the same cost that the ILEC
14 would incur themselves.

15 Q. So in some instances, your position would be
16 that the CLEC should get more than it actually would
17 have cost the ILEC to provide that service?

18 A. I don't know that I agree with that
19 statement. The network configuration that we're talking
20 about here is what we're looking at, whether it's
21 potentially direct end office connections or going
22 through a tandem or going through a fiber ring. The
23 costs are different for each type of interconnection,
24 and what's required for a CLEC to interconnect Qwest to
25 each of its customer base is not the same as what

03102

1 necessarily Qwest would incur to keep it within their
2 own network. We've got different networks, and so it's
3 not the same costs, and I don't know that I can agree
4 with that statement.

5 Q. Okay. But if the original statement was that
6 the standard for rates should be the costs that the
7 originating carrier would have incurred, all right, and
8 if you don't agree with that statement and yet there are
9 other instances in which the CLEC's costs might be
10 greater, wouldn't the logical end result of that be that
11 in certain situations the CLEC would receive more than
12 the ILEC's costs would have been had the ILEC provided
13 the service on its own network?

14 A. Could you restate the last part of that
15 again? I want to make sure I answer this correctly.

16 Q. Okay. Well, I originally asked whether the
17 standard for reciprocal compensation should be the costs
18 that the originating carrier would have incurred had the
19 call stayed on its own network, and I believe you stated
20 that you did not agree with that statement. Then I
21 asked whether in certain circumstances the CLEC would
22 therefore receive more than the ILEC would have incurred
23 in costs had it -- had the call stayed on the ILEC's
24 network, and I think you then said you didn't agree with
25 that, and so I'm trying to resolve those statements.

03103

1 A. Okay, I'm sorry. Back to the first question,
2 which is the same costs as the originating carrier, I
3 agree that it's the same costs as the originating
4 carrier for terminating within a comparable local
5 serving area. If you're talking about within that local
6 serving area specific points, that would depend upon how
7 the ILEC routes its own network. If they're using
8 direct end office trunks versus tandem switching, tandem
9 trunking, transport scenario, it could be different.

10 Now to the second point, which is the CLEC
11 would receive more, that's not necessarily true. The
12 question is will the CLEC receive more to terminate the
13 calls within the same geographic area, and that's not
14 the case. That's what we are entitled to is the cost to
15 terminate within that same geographic area using our
16 switch and our fiber ring to do that.

17 Now our costs are irrelevant, because what
18 we're talking about is what the ILEC's costs are to do
19 the same thing, and they would use a tandem switching,
20 transport, end office combination to get that done. We
21 use a fiber optic ring, switching, transport topology to
22 get that done.

23 Q. I'm still not clear why the amount that the
24 CLEC would receive in that circumstance would not be a
25 greater amount than the amount of costs that the

03104

1 originating carrier would have incurred had the call
2 stayed on its own network. Given that fact pattern, it
3 seems to me that those costs could be greater, they
4 could be less, but they're not the same. But in certain
5 circumstances, the CLEC would be getting a greater
6 amount than those avoided costs; isn't that correct?

7 A. Potentially if you're -- but I want to make
8 sure you're including all the costs associated with
9 interconnection on the ILEC network, including those
10 interoffice direct trunks. But with that caveat, it
11 could be higher.

12 Q. If you could turn to page 3 of this same
13 testimony, Exhibit T-1213, and I'm looking at lines 13
14 through 16, and here I believe you testified that the
15 volume of traffic necessary to justify direct trunking
16 to an end office is 512 calls a second or CCS at the
17 peak usage hour?

18 A. That is what's required in our agreements
19 with Qwest, yes.

20 Q. Okay. So does this mean that if there were
21 512 CCS of traffic from one end office to another end
22 office that it would be appropriate to use direct
23 trunking and to bypass the tandem switch?

24 A. Our agreement requires that when the traffic
25 volumes between XO and Qwest offices exceed 512 CCS that

03105

1 we're required to use direct end office trunking.

2 Q. Now on the other hand, if the 512 CCS that
3 was being terminated on that switch were originating
4 from many different switches, would it still be
5 appropriate to establish direct trunks from all of those
6 switches?

7 A. Not necessarily. It depends on what the
8 levels are coming from those other switches in total.

9 Q. Would it be in that instance more cost
10 efficient to use the tandem even though it has
11 additional switching costs so as to avoid the cost of
12 the direct trunking?

13 A. Potentially if cost is your only
14 consideration. The other considerations would be
15 network blocking and the ability for your customers to
16 get connected.

17 Q. Staying on that same page and going to the
18 top, lines one and two, you have a phrase stating, where
19 the traffic originates, whether at a tandem or an end
20 office, and then the sentence continues. You refer to
21 traffic originating at the tandem, but is it accurate to
22 state that the traffic originates at the tandem?

23 A. Probably a more accurate way of stating that
24 so -- no, probably a more accurate way of stating that
25 is routed through a tandem to get to XO.

03106

1 Q. So would it be the case then that a CLEC
2 might accept the traffic at the tandem, but that the
3 traffic would actually originate at some end office
4 switch?

5 A. That is how it works, yes.

6 Q. You then state on the same page, line three,
7 you say:

8 Dr. Blackman's observation that Qwest
9 terminates traffic delivered via direct
10 trunk groups to its end office thus does
11 not support his conclusion that a CLEC
12 is entitled to compensation at the end
13 office rate when Qwest originates and
14 delivers traffic via direct trunk from
15 its end office to the CLEC for
16 termination.

17 Do you see that?

18 A. Correct.

19 Q. Now is your point here that in many cases the
20 CLEC performs the tandem switch function when Qwest
21 delivers traffic via direct trunks to the CLEC switch?

22 A. Yes, in that the CLEC switch and fiber optic
23 rings basically cover that same or comparable geographic
24 area. So we terminate it, even if it's originating from
25 one end office, we could be terminating it clear across

03107

1 town in a different end office altogether.

2 Q. And are you saying that the CLEC should be
3 compensated for performing that tandem function for
4 Qwest?

5 A. Yes.

6 Q. If you could turn to page four of your
7 testimony, I'm looking now at lines eight through ten,
8 and you state:

9 Rather the CLEC's reciprocal
10 compensation rate is determined
11 according to the geographic scope of its
12 switch, not the geographic scope of the
13 specific Qwest switch to which the CLEC
14 switch is interconnected.

15 Do you see that?

16 A. Yes.

17 Q. Okay. Let's assume we had a situation where
18 a CLEC's network is capable of serving a broad
19 geographic area, but in fact all of the customers, all
20 of its customers, are in the same building in downtown
21 Seattle where the switch is located. And in addition,
22 let's assume that the ILEC has established direct trunks
23 from its end offices because the traffic volumes being
24 terminated on the CLEC are well above 512 CCSs. Given
25 that, given those assumptions, is it your testimony that

03108

1 in this situation the ILEC should pay the CLEC for
2 tandem switching?

3 A. Given your hypothetical, I don't believe so.
4 But I think that you need to look -- we need to look
5 back at the FCC's rules, because I believe what we're
6 talking about is where it actually serves a comparable
7 area, not where it's just capable of serving but
8 doesn't. So I think what we're talking about here is
9 the specific situation where the CLEC actually is
10 serving a comparable geographic area, not just the
11 capability.

12 Q. How do you make that distinction between a
13 situation where a CLEC is capable of serving and when it
14 actually is? Can you, you know, can you draw a
15 distinction in terms of, you know, percentages, or how
16 do you determine, how do you determine that?

17 A. I would determine it based on where the CLEC
18 customer premises locations are actually located.

19 Q. And how many customers would you have to have
20 to determine that there's serving area?

21 A. I have not come to a conclusion, but I would
22 assume you would have to have -- you would have to have
23 some.

24 Q. So if you have 99% in the same building, all
25 right, is that other 1% enough to be deemed service, or

03109

1 I mean where do you draw the break line?

2 A. I have not thought through a break line
3 percentagewise or otherwise. I have looked at it in a
4 generic where are you getting your customers, where is
5 the service going to, do you have your customers all in
6 one place, or do you have them served throughout the
7 broad area.

8 For instance, XO has service mainly in two
9 areas in Washington, Spokane and Seattle. We're
10 connected with all of the end offices in the major areas
11 of both of those serving territories, at least in the
12 Qwest areas of those. And we have customers, a great
13 number, and we actively market. We have plenty of
14 customers in each of those areas.

15 So I haven't gone to the extreme analysis
16 you're talking about, which is you put 99.9% at one
17 place and you put a token person out there to try to
18 game the system. That's not what I am intending to do.

19 Q. But by the same token, there's not any lesser
20 amount of percentages other than 99 and 1 that you --

21 A. Like I said, I have not given it that kind of
22 an analysis.

23 MR. TRAUTMAN: Thank you, that's all the
24 questions I have.

25 JUDGE BERG: We will take our lunch break and

03110

1 be back at 1:30.

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

3

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

5 (1:40 p.m.)

6

7 JUDGE BERG: Dr. Gabel, do you have questions

8 for Mr. Knowles?

9

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

11 BY DR. GABEL:

12 Q. Mr. Knowles, this morning in response to
13 questions from both Ms. Anderl and I think, well, I'm
14 certain Ms. Anderl, you talked about why you were using
15 the FCC's interstate special access tariff to obtain
16 certain high speed connections. And could you just
17 explain why you weren't able to use your interconnection
18 agreement and why you have had to turn to the FCC
19 tariff?

20 A. In general, there are a variety of reasons.
21 One is getting a high capacity loop amendment to our
22 interconnection agreements. Our original
23 interconnections agreements had different provisions in
24 them in different states, most of which completely
25 ignored the high capacity loop specific situation. And

03111

1 so one would be getting interconnection agreement
2 amendments negotiated through the process that will take
3 into consideration these loops.

4 Another issue is the willingness or lack of
5 willingness on behalf of the ILECs to construct
6 facilities if there aren't "facilities available". They
7 refuse to take on that obligation if, in fact, we order
8 it as an unbundled network element. But if we order it
9 as a retail service, if you will, they will treat it the
10 same way they would any other retail customer ordering a
11 DS1. So we will still have held orders, but in most
12 cases they would construct, in some cases they would add
13 special terms and conditions associated with term for
14 that facility.

15 So those are the primary reasons why we have
16 purchased out of the other tariff.

17 Q. Okay. And also could I ask you to turn to
18 Exhibit 1213, this is your response testimony of October
19 23rd.

20 A. Yes.

21 Q. Page eight.

22 A. Is that 1210?

23 Q. No, I'm sorry, 12 --

24 JUDGE BERG: 1210.

25 Q. 1210.

03112

1 A. Yes, okay.

2 Q. Page eight. I'm sorry, 1213, your rebuttal
3 testimony of February 7th.

4 A. Okay.

5 Q. Page eight. You state at lines five and six
6 that:

7 Verizon should not be permitted to
8 impose any termination liability as long
9 as the contract rate is at or above the
10 UNE rates for the same circuits.

11 Would you please explain why you use this
12 criteria that the UNE rates are at or above -- well,
13 could you explain this portion of your testimony?

14 A. Yeah, what I'm trying to discuss here, and
15 this is the situation outside of the special
16 construction area that we talked about to some extent
17 earlier, this is a situation where we have been -- where
18 we may have entered into term or volume agreements with
19 the ILEC in order to get access to these high capacity
20 circuits at rates that are reasonably close to where
21 approximating where we felt like we should have been
22 able to obtain via unbundled network elements but have
23 not been able to. So in this scenario, we were in a
24 situation where we had to purchase out of the special
25 access tariff. Some companies went and got term and

03113

1 volume discounts for the volume they were buying.

2 And now that we're in a situation where we
3 finally have the ability to convert those to unbundled
4 network elements, we think that we should be able to
5 convert those without having to deal with the
6 termination liability. The facilities are still in use,
7 we're not disconnecting anything, we're just changing it
8 from what we have paid, the rates and terms we had paid,
9 to the rates and terms we feel that we should have been
10 able to pay all along without having to enter into that
11 kind of an agreement.

12 Q. Now why do you qualify your comment with as
13 long as the contract rate is at or above the UNE rate?
14 Would you ever convert to UNE rate where the UNE rate
15 was above the contract rate?

16 A. Possibly. If the situation that I described
17 earlier, probably not as eloquently as I should, there
18 are several provisioning situations where we are not
19 able to take what Qwest considers to be a finished
20 service and combine it on the same transport and MUXing
21 facilities as we have our unbundled network elements on.
22 So in some ways you need to be consistent regardless of
23 the price of a particular element just so that you don't
24 have to duplicate facilities or use facilities unwisely.
25 So that might be a scenario where we would make a choice

03114

1 to pay a different rate.

2 Q. Thank you. And I guess finally, then why do
3 you propose that Verizon not be permitted to impose any
4 termination rate when the contract rate is above the UNE
5 rate? Why do you believe that is appropriate?

6 A. I'm sorry, can you restate that?

7 Q. Okay. I'm reading your testimony.

8 A. Yes.

9 Q. You're saying that Verizon should not be
10 permitted to impose any termination liability when the
11 contract rate is above the UNE rate, and I'm just asking
12 you why do you believe that that's the appropriate
13 policy for this Commission to establish?

14 A. Because for the circuits that we're able to
15 convert to unbundled network elements to begin with,
16 they would have to qualify as predominantly local, and
17 we should have been able to order them as unbundled
18 network elements to begin with. We have had to purchase
19 them under special access due to other constraints which
20 we feel were beyond what was reasonable, and so they
21 shouldn't be able to use the fact that they forced us to
22 order it via one mechanism to continue to maintain a
23 higher price for perpetuity once we have been able to
24 finally get the appropriate unbundled network element
25 pricing in place and be able to transition them over.

03115

1 Q. Mr. Knowles, I just understood you to say
2 that the incumbent should have been providing you these
3 high capacity facilities as unbundled network elements.
4 And two years ago were the ILECs in your view legally
5 obligated to provide high capacity loops as an unbundled
6 network element?

7 A. I'm not an attorney, but my personal opinion
8 is that the original Act required the access to
9 unbundled loops in all their varieties from day one, so
10 yes.

11 Q. And did the FCC initially identify high
12 capacity loops as an unbundled network element in its
13 First Report and Order in the interconnection
14 proceeding?

15 A. You're taking me way back to '96. I don't
16 recall specifically that they were. I know that they
17 have been addressed specifically since that point in
18 time. So at the very minimum, from that point when they
19 specifically did address it, it should have been
20 available from that point forward to the CLECs.

21 Q. And that point would be when the Commission
22 -- the FCC issued its UNE Remand Order?

23 A. Yes.

24 DR. GABEL: Thank you.

25

03116

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

2 BY CHAIRWOMAN SHOWALTER:

3 Q. Well, to follow up that discussion, it seems
4 to me that you are looking at those contracts as
5 something of an interim arrangement pending what you
6 feel you had been -- were entitled to to begin with.

7 A. That's correct.

8 Q. And that therefore the penalties or
9 termination penalties which are part of that arrangement
10 should be disregarded?

11 A. Yes. And in addition to that, we aren't
12 terminating the use of the facility.

13 Q. Yes.

14 A. We're still using the facility, we're still
15 paying for the facility, so we haven't terminated the
16 use of the facility. So in that respect as well, I
17 don't think that the termination liability should be
18 applied.

19 Q. But you have or would be terminating the
20 contract itself in favor of the arrangement that you
21 wish you had originally had?

22 A. That is correct, and the mere point I was
23 trying to make is that we're not talking about a
24 stranded facility situation.

25 CHAIRWOMAN SHOWALTER: That's all.

03117

1 COMMISSIONER HEMSTAD: I don't have any
2 questions.

3 JUDGE BERG: Mr. Devaney, redirect, or excuse
4 me, recross?

5 MR. DEVANEY: No, thank you.

6 MS. ANDERL: No, Your Honor.

7 JUDGE BERG: Mr. Edwards?

8 MR. EDWARDS: Briefly.

9

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

11 BY MR. EDWARDS:

12 Q. Am I correct that XO has an interconnection
13 agreement with Verizon in the state of Washington?

14 A. Yes.

15 Q. In response to a question from Dr. Gabel, who
16 was asking about the requirement to provide high
17 capacity loops at a particular point in time, and
18 Dr. Gabel's question was with respect to two years ago,
19 and your response was you weren't sure but you know that
20 there has been a requirement since that time and that
21 your position or XO's position is that under the Act the
22 ILECs have always had that obligation to provide high
23 capacity loops; is that correct?

24 A. That is what I stated.

25 Q. And you would agree with me that under the

03118

1 Act, there are mechanisms that are established to deal
2 with a dispute or a disagreement such as the one you
3 have articulated where an ILEC does not provide a
4 service that a CLEC believes it is obligated to provide
5 for interconnection; is that right?

6 A. Section 252, is that what you're referring
7 to?

8 Q. We can start there.

9 A. Okay, yes.

10 Q. And under that process, the CLEC can request
11 an amendment to its interconnection agreement for a
12 particular service, right?

13 A. It can request it.

14 Q. And if the ILEC decides or does not grant
15 that request, then the CLEC has the option to petition
16 for arbitration on that issue, correct?

17 A. Yes.

18 Q. Okay.

19 A. There is a certain amount of time involved in
20 all of that process, of course.

21 Q. And am I correct that in the state of
22 Washington, XO did not avail itself of that process?

23 A. With respect to Verizon in particular, that
24 is correct.

25 Q. With respect to high capacity loops?

03119

1 A. That is correct.
2 MR. EDWARDS: That's all I have, Your Honor.

3

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

5 BY CHAIRWOMAN SHOWALTER:

6 Q. What about with respect to Qwest?

7 A. With respect to Qwest, we have negotiated
8 with them, and I have on my, hopefully should have on my
9 desk as of today in Utah an amendment to our agreement
10 for Washington, which we will hopefully execute and
11 submit to the Commission for approval within the next
12 couple of weeks.

13 CHAIRWOMAN SHOWALTER: Thank you.

14 JUDGE BERG: Now redirect, Mr. Kopta.

15 MR. KOPTA: Thank you, Your Honor.

16

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

18 BY MR. KOPTA:

19 Q. Just a couple of areas. In working
20 backwards, Mr. Knowles, you had a discussion with
21 Dr. Gabel about termination liability on page eight of
22 your rebuttal testimony, Exhibit T-1213, and Dr. Gabel
23 was asking you why it was that your recommendation was
24 that the contract rate be at or above the UNE rates for
25 the same circuits. Do you recall your discussion with

03120

1 Dr. Gabel on that point?

2 A. Yes.

3 Q. What's your understanding of how termination
4 liability amounts are calculated with respect to term
5 and volume discount contracts?

6 A. My understanding is that the termination
7 liability associated with those types of contracts
8 typically looks at the remaining term of the contract
9 and takes the monthly recurring rate times the remaining
10 number of months, multiples that out, and so the full
11 cost that we're talking about there is the termination
12 liability.

13 Q. So is it your understanding that the
14 termination liability in those circumstances goes toward
15 cost recovery to the ILEC for the services or facilities
16 that it's providing?

17 A. That's my understanding of the intent of the
18 term liability language, yes.

19 Q. That it's for costs or that it's for any
20 margin above cost?

21 A. It would be for their normal operating,
22 profit, cost, and everything else that's involved there.

23 Q. So it's your understanding that under the
24 term and volume contract, the rates that Verizon or
25 Qwest or any other ILEC is charging for the service is

03121

1 still compensatory?

2 A. That's my understanding, yes.

3 Q. The second area is a discussion that you had
4 with Ms. Anderl on poles, ducts, and conduits. Since
5 it's such a fascinating topic, I didn't want to leave
6 without allowing you another opportunity to discuss it.
7 And she asked you whether XO would be willing to
8 negotiate and if necessary arbitrate terms and
9 conditions and rates for field verifications along the
10 lines of your recommendation with respect to Verizon.
11 Do you recall that discussion?

12 A. I do.

13 Q. Does Qwest's statement of generally available
14 terms or SGAT have any impact on XO's position with
15 respect to its willingness to negotiate or arbitrate
16 that issue with Qwest?

17 A. Yes, to the extent that a statement of
18 generally available terms is being negotiated, and
19 prices associated with the services included are being
20 determined at the Commission level on a generic basis
21 and not on a carrier to carrier specific arbitration,
22 that we believe that those rates should be included as a
23 part of that SGAT proceeding rather than having it
24 separate and apart from that.

25 With Verizon, for instance, who as far as I'm

03122

1 aware has not tried to file a statement of generally
2 available terms, when XO negotiates for PDC or poles,
3 ducts, and conduits right of way, we can do that in the
4 context of a company to company negotiation and
5 arbitration. The SGAT is a little bit different
6 situation in that respect.

7 Q. And does XO have concerns with an ICB rate
8 element in an SGAT, specifically a CLEC's self
9 verification fee, as opposed to having the Commission
10 establish a fee for Qwest to undertake that
11 verification?

12 A. Well, yes, the concern, of course, is that an
13 ICB process can be both time consuming and require some
14 kind of dispute resolution when we're trying to get
15 facilities in place. And the incentive would be to
16 require us to pay basically virtually the same amount as
17 it would be for Qwest to do it themselves, which, of
18 course, is a concern that puts us in a disadvantaged
19 situation, how do we do it at the time that we want
20 access to the facilities.

21 Q. And in your view, would it be appropriate for
22 Qwest to charge the same thing to the CLECs for self
23 verification as Qwest charged to undertake the
24 verification?

25 MS. ANDERL: Objection, Your Honor, I think

03123

1 that that question presumes a foundation that does not
2 exist, which is the basis for the sets of charges.

3 MR. KOPTA: I'm not sure I understand the
4 objection.

5 JUDGE BERG: I understand that it's a lack of
6 foundation objection, and the foundation that is lacking
7 is?

8 MS. ANDERL: The identified cost basis for
9 both sets of charges. In the case of what Qwest is
10 charging to perform the field verification, those costs
11 and prices are in evidence. In terms of what Qwest
12 would charge when the CLEC performs the verification,
13 those costs and prices are not in evidence. So I
14 believe the comparison that Mr. Kopta is asking his
15 witness to do on redirect is without sufficient
16 foundation.

17 MR. KOPTA: I can ask some additional
18 questions if that would overcome the foundation issue.

19 BY MR. KOPTA:

20 Q. Mr. Knowles, referring to the nonrecurring
21 cost study that Ms. Anderl walked through with you with
22 respect to the various fees associated with poles,
23 ducts, and conduits, and specifically let's discuss the
24 field verification fee for manholes, which is page 320
25 of 322. And I apologize, I don't have the exhibit

03124

1 number handy, but do you recall that document?

2 A. I have it here, yes.

3 Q. Is it your understanding that if XO or any
4 other CLEC were to undertake a verification itself that
5 it would undertake the same activities that are listed
6 in this document?

7 A. No.

8 Q. Do you have any understanding about what
9 activities would be required if the CLEC were to
10 undertake a self verification?

11 A. Yes, I do.

12 Q. And those are?

13 A. Our engineers have told me that when they're
14 trying to do a field verification, first of all, their
15 statement to me is there shouldn't be a field
16 verification, because the records should be accurate and
17 tell us whether there is facilities available or not.
18 The only reason to do a field verification is if
19 somebody's records are inadequate.

20 However, if it's required to do field
21 verification, my engineers have told me that we're
22 talking about a time frame to go to the manholes that
23 need to be reviewed of about two hours per manhole one
24 time. And that is the amount of time that should be
25 looked -- be able to do what's needed at the manhole, to

03125

1 go in and view whether or not the facilities are
2 available or not.

3 They have also mentioned that you don't need
4 to do that at each and every manhole. You can do that
5 at interim parts along the route. Depending on how bad
6 the records are, you may have to do it more often than
7 not, but the situation isn't one where it's required
8 every time every place and that it should be limited
9 where it is happening to about two hours per manhole.

10 Q. And what should Qwest's involvement be in
11 that process if the CLEC is undertaking its own
12 verification?

13 A. My understanding of what would be required
14 from Qwest is to have a technician along with to make
15 sure that we're looking at things appropriately and
16 verifying what we're looking at, so let's say a person
17 to accompany our technicians.

18 MR. KOPTA: Thank you, that's all I have.

19 JUDGE BERG: Any additional
20 cross-examination?

21 MS. ANDERL: Yes, of course.

22

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

24 BY MS. ANDERL:

25 Q. Mr. Knowles, staying on this same topic but

03126

1 going back to the SGAT discussion.

2 A. Yes.

3 Q. Is it XO's understanding that the SGAT or 271
4 process precludes XO from having an individual one on
5 one negotiation and arbitration with Qwest on an issue
6 that is particular to XO?

7 A. No, as long as it's an issue that's
8 particular to XO, I think that's the case. But access
9 to poles, conduits, and rights of way I don't consider
10 to meet necessarily that criteria.

11 Q. Well, even if access to poles, ducts,
12 conduits, and rights of way were addressed in the SGAT
13 and 271 proceeding, does XO believe that that precludes
14 XO from having an individual negotiation with Qwest for
15 particular terms and conditions that might meet XO's
16 particular needs?

17 A. No.

18 Q. Let me ask you about the amount of time it
19 takes to perform the field verification on a manhole by
20 manhole basis.

21 A. Certainly.

22 Q. Would you agree with me that the amount of
23 time to perform the inspection would to some extent vary
24 upon the distance that the technician must travel to
25 reach the manhole in any given case?

03127

1 A. The time frames that I was referring to are
2 specifically manhole related time frames, not travel
3 time.

4 Q. Oh, okay. Did your engineering personnel
5 identify any particular amount of travel time that might
6 also be involved on either end of the actual manhole
7 verification, manhole inspection?

8 A. We did not, I did not address that with him.

9 Q. Would you agree that if the manhole were some
10 distance from the office where the technician worked,
11 there would be travel time involved?

12 A. Yes, I do. However, I also would note that
13 when we're looking for conduit, it's a number of
14 manholes typically in a similar geographic area, so you
15 wouldn't have a complete redundancy of travel time for
16 each manhole visited.

17 Q. Did you discuss with your engineers whether
18 or not manholes sometimes need to have either water or
19 gas removed from them before it's safe to enter the
20 manhole?

21 A. Yes.

22 Q. And did their time estimate that they gave
23 you include time for pumping the manhole out either to
24 make the air safe or to remove water?

25 A. Yes.

03128

1 Q. Did you discuss with them how often they
2 assumed that needed to happen; is that on every manhole?

3 A. It is assumed on every manhole that we enter,
4 which is what we're talking about, that it is required.

5 Q. Is any time assumed in addition to the two
6 hours to update records or prepare drawings?

7 A. Included in the 2 hours, my engineers have
8 said that it really takes about 15 minutes for the
9 technician to do a butterfly drawing of the manhole and
10 the conduits that are associated therein. Now what
11 Qwest would need to do to update their records after the
12 fact, we didn't get into their time frame for how much
13 cleanup they would have to do on the records.

14 Q. What's a butterfly drawing?

15 A. I don't know, that's the term they used.

16 MS. ANDERL: I think that's it.

17

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

19 BY MR. KOPTA:

20 Q. Just one follow-up question, or actually a
21 couple of questions, one follow-up area. Mr. Knowles,
22 do you have experience with interconnection negotiations
23 with Qwest?

24 A. Yes, I do.

25 Q. In your experience, if the Commission has

03129

1 approved an SGAT with terms and conditions and prices in
2 it, what is the likelihood that Qwest would change any
3 of the prices that the Commission has approved?

4 A. I need to qualify this answer, because I have
5 not negotiated with Qwest on an interconnection
6 agreement where there has been a state approved SGAT.
7 Where there has been commission arbitrations on issues
8 with a commission resolution on a particular issue, that
9 may be an analogous situation, and in that scenario, we
10 end up with a limit of what the commission had already
11 determined in a prior docket for a prior case.

12 Q. And what is your understanding of the utility
13 of having an SGAT as opposed to requiring carriers to
14 negotiate interconnection agreements individually?

15 A. Obviously it's intended, I think, and I think
16 it's actually working out hopefully that way, to be a
17 time saving for all parties involved. We deal with the
18 issue once. Where we know we're going to have disputes,
19 we take care of them right then, and all parties are
20 taken care of at one time. We don't have to do it on an
21 individual case-by-case basis.

22 MR. KOPTA: Thank you, that's all I have.

23 JUDGE BERG: All right then, Mr. Knowles,
24 that concludes your testimony here today. Thank you
25 very much for being present. You're excused from the

03130

1 hearing.

2 THE WITNESS: Thank you.

3 JUDGE BERG: We will be off the record

4 momentarily.

5 (Discussion off the record.)

6 JUDGE BERG: Dr. Taylor, please rise.

7

8 Whereupon,

9 WILLIAM E. TAYLOR,

10 having been first duly sworn, was called as a witness

11 herein and was examined and testified as follows:

12

13 JUDGE BERG: Thank you, sir.

14 THE WITNESS: Thank you.

15

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

17 BY MR. DEVANEY:

18 Q. Good afternoon, Dr. Taylor.

19 A. Good afternoon.

20 Q. Dr. Taylor, you have filed both direct
21 testimony and rebuttal testimony; is that correct?

22 A. Yes.

23 Q. Do you have any changes you would like to
24 make to any of your testimony?

25 A. No.

03131

1 Q. Are the answers that you provided true and
2 correct to the best of your knowledge?

3 A. Yes, they are.

4 MR. DEVANEY: Your Honor, we would ask that
5 Exhibits T-1120 through T-1122 be admitted, T-1120 being
6 the direct testimony, 1121 being Dr. Taylor's CV, and
7 1122 Dr. Taylor's rebuttal testimony.

8 JUDGE BERG: Hearing no objection, they are
9 so admitted.

10 MR. DEVANEY: Thank you, and Dr. Taylor is
11 available for cross.

12 JUDGE BERG: All right. And, Mr. Devaney,
13 you might want to pull that microphone back over for
14 redirect when the opportunity arises.

15 MR. DEVANEY: Thanks.

16 MS. HOPFENBECK: Your Honor, Mr. Kopta is
17 going to go first on this witness.

18 JUDGE BERG: All right, thank you.

19 Mr. Kopta.

20 MR. KOPTA: Thank you, Your Honor.

21

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

23 BY MR. KOPTA:

24 Q. Good afternoon, Dr. Taylor.

25 A. Afternoon.

03132

1 Q. I have just a few questions are for you, and
2 they all are based on your testimony in Exhibit T-1120,
3 your direct testimony. And the first questions that I
4 have are with respect to page 39.

5 A. Yes.

6 Q. Specifically beginning on line four, you are
7 discussing there the relative cost differences for
8 traffic directed to Internet service providers served
9 using ISDN primary rate interfaces or PRI; is that
10 correct?

11 A. Yes, with concentration ratios of one to one.
12 That's an important qualification.

13 Q. Does Qwest use PRI to serve ISPs?

14 A. I don't know specifically, but I wouldn't be
15 surprised.

16 Q. And do Qwest and CLECs use PRI to provide
17 service to other businesses that are not ISPs?

18 A. Oh, certainly, and engineered at different
19 concentration ratios.

20 Q. So there may be some that are on the one to
21 one concentration ratio that you have discussed here?

22 A. Certainly is possible.

23 Q. Then would the conclusion and the
24 recommendation you have in the paragraph beginning on
25 line 13 apply for traffic that's directed to those other

03133

1 customers as well as to ISPs?

2 A. The fact that I cite does apply to switching
3 costs when ISDN -- when any one to one concentration is
4 used. That is it becomes non-traffic, those parts of
5 the switch costs that ordinarily would be traffic
6 sensitive become non-traffic sensitive. That pertains
7 to any form of traffic which is served using one to one
8 concentration.

9 What you do with that fact is the subject of
10 another part of my testimony, that is whether you
11 disaggregate costs for ISP bound traffic as opposed to
12 some other form of traffic is a different question. But
13 it is correct that the costs depend only on or this cost
14 feature depends only on the fact that part of the switch
15 has become non-traffic sensitive.

16 Q. And I want to focus on the second aspect of
17 it, which is if there's a cost differential with respect
18 to a particular type of traffic termination, in this
19 case a PRI with a one to one concentration, is it part
20 of your recommendation or part of Qwest's recommendation
21 that that traffic be treated separately for reciprocal
22 compensation purposes if it's carriers that are not ISPs
23 but are served in a similar manner?

24 A. In general, the answer is no. That is I
25 think it's a broad view that Qwest would probably

03134

1 subscribe to that prices ought to follow costs. The
2 level to which you disaggregate costs is sort of a
3 regulatory question, that is cost of serving each
4 individual is probably different, but we can't have
5 everybody paying a different price, that's just
6 unwieldly.

7 Why does it make sense to isolate ISP bound
8 traffic which has a unique set of characteristics and
9 not other traffic which may have characteristics that
10 differ? Well, there are two reasons for that. One is
11 that it's easily identifiable, and the traffic does have
12 very different characteristics. But second and equally
13 important is the FCC has already identified that class
14 for us. For ISDN PRIs serving PBX trunks which may have
15 one to one concentration, the Commission -- or Qwest is
16 free to recover that, those costs any way it pleases
17 within limits of state regulatory proceedings. However,
18 for ISP bound traffic, it isn't. There is the ESP
19 exemption which applies to only a certain set of this
20 traffic.

21 And that's what makes me at least look at
22 that set of traffic, observe why its costs are
23 different, and say since we can't recover that any way
24 we please because it's bound by the ESP exemption, let's
25 try to look at its costs separately. It makes sense to

03135

1 look at its costs separately and not necessarily teenage
2 children who have long holding times or PRI one to one
3 concentration for PBX customers.

4 Q. So even though the costs may be the same to
5 terminate traffic to these different types of customers,
6 there are other reasons that you say that ISPs should be
7 treated differently than those other customers that use
8 the same type of service and incur the same or cause the
9 LECs to incur the same costs?

10 A. Sure, the logic is pull out the ISP bound
11 traffic, because that has to be treated separately for
12 cost recovery. It's subject to a different set of
13 rules, that is it has the ESP exemption. Take the whole
14 pot of what's left. Well, that traffic has different
15 cost characteristics. Some of it will have long holding
16 times, teenage children. Some of it will have short.
17 And we will average that all together just as we have
18 done in the past and recover those costs or not using
19 our usual regulatory tools. Because the Commission is
20 free and Qwest is free where it isn't price regulated to
21 recover those costs any way it pleases.

22 If it makes sense for some regulatory purpose
23 or for a marketing purpose for Qwest to separate teenage
24 holding times from my holding times and charge me
25 differently from them, that's fine, that's a decision

03136

1 this Commission could make, or if it isn't regulated
2 that Qwest marketing could make. But that doesn't apply
3 to ISP bound traffic.

4 Q. Changing topics a little bit, and in this
5 case I would like you to refer to page 48 of the same
6 exhibit.

7 A. Okay.

8 Q. And beginning with the question on line
9 seven, you have a discussion about whether reciprocal
10 compensation for ISP bound traffic distorts local
11 competition, and you give two ways in which that is the
12 case. Is that a fair characterization of your testimony
13 at this point?

14 A. Yes.

15 Q. The first, as I understand it, is that -- and
16 I will just read the sentence beginning on line 11:

17 As most switched ISP bound traffic comes
18 from residential users, incentives to
19 compete to serve residential users would
20 be artificially diminished.

21 Do I take it by that statement that Qwest is
22 concerned that there will be less incentive for CLEC's
23 to serve residential customers because of reciprocal
24 compensation for ISP bound traffic?

25 A. Certainly I am concerned. Whether Qwest is

03137

1 concerned is sort of a strange question. But yes,
2 that's the point, that there is economic concern that
3 the incentive on the part of CLECs or ILECs for that
4 matter to serve residential potential dial up Internet
5 users is diminished.

6 Q. Does Qwest contend that residential service
7 is priced below cost in Washington?

8 A. I don't know the answer to that. I guess I
9 probably do contend that, but I'm not sure exactly what
10 the circumstance is. Certainly it's the case that some
11 residential service is priced below forward looking
12 incremental cost of serving those people. Whether
13 that's true on average across all rate groups, I'm not
14 -- I don't remember.

15 Q. Would that be true regardless of whether
16 there is reciprocal compensation for ISP bound traffic?

17 A. I believe that's the case. In those
18 calculations based on total service long run incremental
19 costs, the ones I'm familiar with are mostly loop
20 studies, which don't take into account reciprocal
21 compensation payments at all.

22 Q. Well, if it's true that residential service
23 is priced below cost in Washington, do CLECs have any
24 incentive to compete to serve residential customers when
25 the price leader has always set -- already set the price

03138

1 below cost?

2 A. Sure, it has exactly the same incentive that
3 -- financial incentive that Qwest does. How does Qwest
4 make money? Qwest makes money selling loops below cost,
5 by assumption, because once it has the customer, it
6 sells other services to that customer. And on average,
7 it makes money selling services to residential
8 customers.

9 What's the deal with a CLEC? A CLEC has the
10 same opportunity. It can buy an unbundled loop at cost,
11 at Qwest's cost. Let's hold aside the fact that the
12 TSLRIC we have been speaking about is different from the
13 TELRIC for the loop, but in principle, the CLEC incurs
14 the same cost that Qwest incurs when it provides the
15 loop, so the CLEC in theory is in exactly the same
16 competitive position as Qwest is.

17 If it can sell enough ancillary services,
18 toll, carrier access, vertical services to these
19 customers to make up for the difference between the UNE
20 loop price and the market price that the CLEC can charge
21 customers, then that's fine.

22 CLEC has the additional advantage that it
23 gets to target the customers for whom that's likely to
24 be true, whereas the ILEC generally has to serve all
25 comers.

03139

1 Q. And that was one of the areas that I wanted
2 to ask you about, because obviously the ILEC is in a
3 different position than the CLEC in that it, at least
4 for the most part, it serves the universe of residential
5 customers and can therefore have some, for lack of a
6 better term, cross subsidization between maybe
7 individual services or individual consumers so that it
8 roughs out or evens out the rough patches to be able to
9 make money on an aggregate basis if not on an individual
10 per customer basis. Isn't that an advantage that the
11 ILEC has that the CLEC doesn't?

12 A. No. I mean if you think about it, what you
13 suggest is that the ILEC has to serve everybody, so it
14 gets the good customers and the bad customers. But the
15 CLEC doesn't have that ability. It gets to choose, and
16 it only chooses the good customers. How could that be
17 an advantage for the ILEC? The ILEC is stuck with
18 serving people for whom, the customers, residential
19 customers, for whom the total revenue from serving that
20 customer doesn't cover the cost. CLEC wouldn't
21 knowingly ever try to attract such a customer. So the
22 ILEC is always in the worse position as far as this form
23 of competition is concerned, because it has to serve
24 customers for whom it's not -- from which it's not going
25 to make any contribution whatsoever.

03140

1 Q. So do I understand your concern correctly
2 that you want to preserve the incentive for CLECs to
3 serve high revenue residential customers while Qwest
4 continues to serve the low revenue residential
5 customers?

6 A. In the short run absolutely, yes, I want to
7 preserve a CLEC's incentive to serve residential
8 customers no matter what. What we're putting on top of
9 this, what reciprocal compensation does is it puts an
10 additional distortion on top of the one that we have
11 just been discussing, namely the fact that in addition
12 to all the other problems you just named, if a CLEC
13 serves a residential customer, the CLEC is then going to
14 have to pay most likely reciprocal compensation if that
15 residential customer accesses the Internet. Turns out
16 that the ILEC has exactly the same disincentive, that is
17 it doesn't want the customer for that reason any more
18 than the CLEC does, but the ILEC doesn't have any choice
19 in the matter.

20 Q. So you believe that a CLEC offering
21 residential service in a particular area could turn down
22 a customer because it doesn't feel that that particular
23 customer will not generate enough revenue to allow the
24 CLEC to make money on that particular service to that
25 particular customer?

03141

1 A. I'm not sure what the legal obligations on
2 CLECs are. Surely CLECs can choose how to market to
3 customers, how to supply services to customers. CLECs,
4 I presume, can offer a bundle of services, for example.
5 If you want to sign up with my CLEC, you will buy, you
6 have to buy a bundle of local exchange, long distance,
7 and three vertical services. I believe that's probably
8 legal in Washington. It certainly is in other places.
9 And that offering by itself is one which discourages
10 people who may not want ever to make a toll call or to
11 use a vertical service.

12 They haven't -- the CLEC hasn't ruled it out,
13 hasn't violated any law, but because it's free to price
14 its services and to bundle those services, it can make a
15 service that's attractive to the kind of customers it
16 wants to serve and is unattractive to the kind of
17 customers it wants to discourage.

18 Q. Are you aware of any CLECs that are offering
19 residential service in the state of Washington at this
20 time?

21 A. Not specifically, no. I haven't studied any
22 of them for this case.

23 Q. The second area or way in which you discuss
24 the reciprocal compensation for ISP bound traffic would
25 distort local competition is that ISPs would be better

03142

1 off if their customers were served by the ILECs, and
2 again this is on page 48 of your direct testimony,
3 Exhibit T-1120. Is that a fair characterization of your
4 second point?

5 A. Yes.

6 Q. Does this assume that the CLECs are passing
7 on reciprocal compensation revenues to ISPs in one form
8 or another?

9 A. In one form or another, sure. Either the
10 market price of access that the ISPs pay to CLECs,
11 that's the one that an economist would expect to be the
12 form of this pass through, or explicit pass throughs of
13 which there are at least one example that I'm familiar
14 with.

15 Q. Right, and as I recall in response to a data
16 request, that you were not aware of any such CLEC that
17 is engaging in that in Washington?

18 A. In specific kickbacks, to use a nasty word,
19 no, I'm not aware of any of that. On the other hand,
20 the one -- the mechanism that I'm more afraid of or more
21 believe in as an economist is the economic one. That is
22 the market to serve ISPs is reasonably competitive.
23 There are a bunch of CLECs out there all trying to serve
24 these customers. And if as a consequence of serving an
25 ISP, the CLEC gets a flow of contribution from

03143

1 reciprocal compensation, that's an additional part of --
2 will be reflected ultimately in the market price, the
3 price the market will set for the PRI trunks that CLECs
4 sell to ISPs.

5 Q. You're aware that CLECs provide service in
6 Washington under price lists and contracts that are
7 filed with the Commission, correct?

8 A. Not explicitly, but I can take that subject
9 to check.

10 Q. Okay. Have you reviewed any of these types
11 of filings by CLECs in Washington?

12 A. No.

13 Q. Do you have any evidence that CLECs price
14 their services to ISPs differently than other customers,
15 for example, other customers of PRI, that there's a
16 distinction between how they price PRI to non ISPs as
17 opposed to ISPs?

18 A. No, in Washington I haven't -- I don't have
19 any of that evidence. I should say it's also hard to
20 get and ambiguous, that is the way that this competitive
21 advantage or the contribution flow from reciprocal
22 compensation gets passed through, one way is through
23 price, but equally is through services, through higher
24 quality, through all of the good things that CLECs say
25 are the reasons why they dominate the ISP market. I

03144

1 mean it's a totalogy almost in economics, one element of
2 what you sell is price, the other is quality, and you
3 can't really talk about one without the other. So I
4 suppose the only evidence, direct evidence, I have is
5 the evidence that CLECs say which is the reason why
6 they're so successful with ISPs is because they provide
7 much higher quality service.

8 Q. So you also don't have any evidence that
9 CLECs are pricing their services to ISPs below Qwest's
10 cost to also provide a competing service to ISPs?

11 A. I have no evidence one way or the other.

12 Q. And you are aware, I believe, from having
13 participated in the docket that Qwest is competitively
14 classified for business services provisioned over DS1 or
15 higher capacity circuits in four wire centers in
16 Washington; is that correct?

17 A. I think I was aware of that outcome, but I'm
18 not -- wasn't quite sure exactly when that took place,
19 if in fact it has taken place. I understand that to be
20 a decision, but whether that's been implemented or not,
21 I'm not -- I may be behind.

22 Q. And is it your understanding that PRI is one
23 of those services that Qwest has competitive
24 classification for in those areas?

25 A. I haven't thought about it, and my immediate

03145

1 answer would be no, because I thought it was DS1 and
2 higher was the standard, and that is not quite ISDN PRI.
3 So I don't know is the short answer, and my instinct is
4 the answer would be no, but I can take either answer
5 subject to check.

6 Q. Well, I guess the question then is, is ISDN
7 PRI provisioned over or can it be provisioned over a DS1
8 or higher speed trunk?

9 A. I think you're mixing apples and oranges, at
10 least as far as my engineering expertise is concerned.
11 Customers will buy a DS1 if they need 1.54 megabytes of
12 service, and an alternative to that available over
13 copper wire is ISDN service, but which ISDN PRI I don't
14 think is 1.54 megabyte, but that's straining my
15 knowledge.

16 Q. Well, we're straining each other's, because
17 it was my understanding that ISDN BRI, B as in boy,
18 would be the consumer line side connection, whereas an
19 ISDN PRI would be trunk side. But since I am equally up
20 in the air on that and I'm not testifying but you are,
21 then maybe we ought to just leave it at that, and I will
22 thank you for your testimony, thank you.

23 A. Thank you.

24 JUDGE BERG: Ms. Hopfenbeck.

25

03146

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

2 BY MS. HOPFENBECK:

3 Q. Hello, Dr. Taylor.

4 A. Hi.

5 Q. I'm representing WorldCom today, and I would
6 first of all like to talk to you a little bit about end
7 to end analysis that you undertake in your direct
8 testimony. I'm always at a loss for exhibit numbers,
9 sorry.

10 MR. DEVANEY: Is it 1120 perhaps?

11 MS. HOPFENBECK: 1120, thanks.

12 BY MS. HOPFENBECK:

13 Q. Now the end to end analysis that you have
14 undertaken is similar to the end to end analysis that
15 the FCC undertook in its ISP order; is that right?

16 A. Came to the same conclusion, yes.

17 Q. Okay. And an end to end analysis is what the
18 FCC has employed historically in order to determine
19 whether a call is intra or interstate, falls into the
20 enter or intrastate jurisdiction; is that fair?

21 A. That's my understanding.

22 Q. And when the appeals court, district court,
23 the District of Columbia Court of Appeals remanded to
24 the FCC that decision for reconsideration and further
25 explanation, it sought from the FCC an explanation as to

03147

1 why the end to end analysis should apply in the context
2 of reciprocal compensation; would you agree?

3 A. Yes.

4 Q. And, in fact, found that it really thought
5 that the reciprocal compensation context might be
6 different than the context in which the end to end
7 analysis had traditionally been employed; is that true?

8 A. Well, I mean we may be straining at words.
9 What the, well, what the court says is:

10 There is no dispute that the Commission
11 has historically been justified in
12 relying on this, the end to end method,
13 when determining whether a particular
14 communication is jurisdictionally
15 interstate, but it has yet to provide an
16 explanation why this inquiry is relevant
17 to discerning whether a call to an ISP
18 should fit within the local call model
19 of two collaborating LECs or the long
20 distance model of a long distance
21 carrier collaborating with two LECs.

22 So it sort of said, it said what you said,
23 namely that the court said please give us an
24 explanation, but I don't read into it a sort of a
25 negative thing that says, gee, it should be the other

03148

1 way. Rather it's the situation is different, and why do
2 you think your end to end analysis comes up with the
3 local call model rather than the long distance call
4 model.

5 Q. Okay. As I understand it, I mean part --
6 when you're doing your end to end analysis, one of the
7 conclusions that you draw is that the ISP stands in the
8 I think you call it the economic role of a carrier?

9 A. Yes, very much so. I think the FCC says that
10 as well.

11 Q. And the court of appeals in its decision
12 remanding that ISP order concludes that in states that
13 ISPs are not telecommunications providers; do you agree
14 with that?

15 A. I believe I have read that very sentence in
16 the order, and where I read that sentence, there's no
17 explanation of exactly what they mean by that, which
18 takes me back to the FCC's ISP order where they
19 carefully explain that in the FCC's view, ESPs and ISPs
20 purchase carrier access, and that they are treated as
21 end users for the purpose of paying for local access.

22 That's the ESP exemption, so I take the ESP
23 exemption as the great exception to sort of everything
24 that the FCC has done, and which is what's causing all
25 of this problem. And for the purpose of tariffing the

03149

1 service that ESPs and ISPs purchase, they will be
2 treated as end users. It doesn't say they are end
3 users, and it certainly doesn't make them end users from
4 a functional perspective or, as I talk about it, from an
5 economic perspective.

6 Q. Well, let's look at this from an economic
7 perspective. In your testimony, you contrast what you
8 call the ILEC-CLEC interconnection model with the
9 ILEC-IXC interconnection model; is that right?

10 A. Yes.

11 Q. And you conclude that the ISP bound call or
12 the ILEC-CLEC-ISP interconnection resembles the ILEC-IXC
13 interconnection model, correct?

14 A. I think so, but that's a lot of ILECs and
15 CLECs.

16 Q. Right.

17 A. Yes, that the ISP world is like toll rather
18 than like local.

19 Q. Okay. And so I would like to just look at
20 your testimony in Exhibit 1120 beginning at page 17 and
21 the discussion that follows for 17, 18, and 19 there.

22 A. Okay.

23 Q. Now in describing the ILEC-CLEC
24 interconnection model, which is the model in which it
25 would be appropriate for the ILEC to compensate the CLEC

03150

1 for transport and termination, correct?

2 A. Yes.

3 Q. You describe some of the characteristics of
4 that model, and one of the things you identify is that
5 Qwest will determine if the call has been completed,
6 they will bill and collect from the customer for the
7 call, and answer questions regarding the bill or the
8 service; do you see that?

9 A. Yes.

10 Q. Okay.

11 A. It provides dial tone, transport, marketed
12 the service, determined price, terms and conditions,
13 complete, yes, all of that.

14 Q. Okay. Let's talk about completion. How does
15 Qwest determine if the call has been completed?

16 A. In this sense, the call has been completed
17 when the modem at the ISP goes off hook, and that call
18 has been completed. I'm sorry, we're talking about
19 local, sorry.

20 Q. Right, that's what I'm talking about.

21 A. The signal that comes back when the phone at
22 the other end picks up.

23 Q. Now isn't it true that when a CLEC delivers a
24 call to an ISP customer that they are serving, a similar
25 signal goes back to Qwest indicating that the call has

03151

1 been completed?

2 A. Yes.

3 Q. Okay. Now one of the things you identify is
4 that Qwest has marketed this service to its subscriber.
5 I assume you are referring to it's marketed its local
6 service, solicited its local customer, is that right?

7 A. Correct, designed the service that it's
8 offering to those customers.

9 Q. Now Qwest does market local service to
10 customers specifically for customers to use that service
11 to access the Internet, doesn't it today?

12 A. I'm not familiar with them.

13 Q. The example that I have got in mind is the
14 marketing of additional lines. Are you familiar with
15 marketing of additional line service for use of the
16 Internet?

17 A. Not specifically, but I'm willing to grant
18 you that selling -- that that's a logical thing for a
19 firm to do. However, that's --

20 Q. Now --

21 A. Let's make sure we're talking about the right
22 thing. That's marketing a line. That's not part of the
23 decision that, you know, I would make if I'm a customer
24 whether to make a call or not to the Internet. I mean
25 I'm looking at the per call rate, not the line price.

03152

1 Q. But in terms -- I mean the thing is let's --
2 a customer sees an advertisement, if you assume a
3 customer sees an advertisement that Qwest has placed, it
4 says purchase an additional line and free up, you know,
5 for your computer so that your first line is freed up
6 for your local calls.

7 A. Sure.

8 Q. Would you agree that that customer may very
9 well purchase that additional line in order to use that
10 line to access the Internet?

11 A. Absolutely. My only point was that when the
12 customer sits down to actually make that call on his
13 second line that Qwest has sold him, what service, the
14 relevant question is what service is that customer
15 using. Does the customer think it's using Qwest local
16 exchange service, how much is it going to cost me, or
17 does that customer think, hey, AT&T or AOL or whatever,
18 that's the service I'm using when I'm sitting down at my
19 keyboard.

20 Q. When the customer makes the call or actually
21 accesses the Internet, you're discussing the fact that
22 that customer is thinking, I'm purchasing Internet
23 service at that point?

24 A. Correct.

25 Q. Now isn't it also -- wouldn't it also be fair

03153

1 to say that when -- let's talk about a credit card
2 verification company example and a subscribe -- and a
3 customer that subscribes to the services of a credit
4 card.

5 A. Department store.

6 Q. Department store, good example. Now that
7 customer when the communications lines are used to
8 access that credit card verification service is thinking
9 at the time they subscribe to that that that's the
10 service that they're purchasing, wouldn't you agree,
11 just very similarly to the way the end user who wants to
12 access the Internet thinks when they dial up to access
13 the Internet?

14 A. Almost, but there's one sort of important
15 distinction, and that is that the credit card service
16 when I dial them up, that's all I get. I mean it's not
17 that they're a communications company through which my
18 message goes out to wherever I want to send it. Rather
19 it's like dialing up Lands End or something to get a
20 shirt, it only goes there. So it's an end user in that
21 sense rather than like a long distance carrier, somebody
22 who just passes the message along to its intended place,
23 and that I sitting back on my computer am sending my
24 message not to the credit card company or to the ISP,
25 I'm sending my message to Lands End.

03154

1 Q. And it's your testimony that a credit card
2 verification company or service never goes beyond itself
3 in getting the information necessary to actually verify
4 that their credit card is --

5 A. Oh, no, it may well do that. But when I'm --
6 if I'm a department store, which is hard to imagine, but
7 if I were, that's all I get when I go down that
8 particular line. When I dial that number, I get that
9 piece of information from the credit card company. It
10 may have taken them lots of other calls and all of that
11 to put the information together just like it takes a
12 pizza parlor a whole lot of effort to put together the
13 pizza that I will then access with my call to the pizza
14 parlor, but that's very different from the role that a
15 long distance carrier plays when it passes through a
16 long distance call or that an ISP plays when it passes
17 through my call to wherever I want to send it.

18 Q. Okay. Just so we are clear about the end to
19 end call, in the case of an ISP, it's true that what
20 happens is that the originating ILEC subscriber places
21 the call, and that call is carried on the circuit switch
22 network to the ISP's presence in the local calling area;
23 do you agree?

24 A. Yes.

25 Q. And the ILEC may deliver that call directly

03155

1 to the ISP, or a CLEC may be serving the ISP and it is
2 carried, terminated by the CLEC, correct?

3 A. Well, terminated is a loaded word, so why
4 don't we just say --

5 Q. Delivered.

6 A. Delivered, yes.

7 Q. Then the ISP, when the ISP takes that call,
8 the ISP does not carry the call beyond its local
9 presence on a circuit switch network, does it?

10 A. Not on a circuit switch basis, that's
11 correct.

12 Q. But rather on a packet switch basis?

13 A. Certainly, the function of a message, my
14 message being passed to Lands End, doesn't end in any
15 sense at the ISP.

16 Q. In contrast, when a long distance call is
17 carried and that call is delivered by whatever carrier
18 delivers it to the IXC point of presence, the IXC then
19 will carry that call forward on -- continue to carry
20 that call forward on a circuit switch network?

21 A. Some do, some don't. I mean there are packet
22 switched networks for voice service which you access in
23 the same way that we have been speaking of. That is a
24 circuit switch connection to the carrier, carrier sends
25 it around the world or wherever it goes on a packet

03156

1 switch network, and then at the other end it goes off
2 again on a circuit switch network. That's not unusual.

3 Q. But you would certainly agree that
4 traditionally interexchange carriers have carried,
5 historically they have carried that call largely on a
6 circuit switch network?

7 A. That has been the technology until packet
8 switching came in not very long ago in history.

9 Q. Okay. Now you mentioned the fact that
10 termination is a loaded term. You would agree that the
11 appellate court in remanding the ISP decision to the FCC
12 stated that the fact -- stated in its decision that the
13 fact that the ISP -- or disagreed that the fact that the
14 ISP originates further communications beyond itself
15 implied that it did not -- that the call did not
16 terminate at that point?

17 A. It may well have, you would have to point me
18 to exactly where it says that. But then it must be
19 using terminate in a very narrow and technical meaning.
20 Surely none of us think that in the ordinary English
21 language sense of it that the message stops at the ISP.
22 The ISP doesn't care about my shirt from Lands End or my
23 books from Amazon.com. It doesn't even know about them.
24 It simply passes them along. The sense in which the
25 message terminates at the ISP has to be a very narrow

03157

1 one if that's what the court or you, if that's the usage
2 you want to make of the word, that's not the ordinary
3 English language meaning.

4 Q. But isn't it true that when the circuit court
5 of appeals was using the term terminate, it was using
6 the term terminate as it was being advocated by the
7 CLECs in that case. I mean based -- for purposes of
8 reciprocal compensation, they were using the term
9 terminate as they thought the FCC should have used the
10 concept terminate, that the local call terminates where
11 the -- for purposes of the analysis of whether this is
12 local or interstate, the call terminated at the ISP; is
13 that right?

14 MR. DEVANEY: Your Honor, at this point I'm
15 going to interpose an objection on the ground that we're
16 seeking as I understand it a specific interpretation of
17 what the D.C. Circuit meant by a word in its opinion.
18 And admittedly Dr. Taylor addresses the decision in
19 general terms in his testimony, and that's why I haven't
20 objected so far. But at this point, asking for an
21 interpretation of a specific word in a decision is one
22 that I think is improper, calls for a legal conclusion,
23 and also really would call for Dr. Taylor to analyse the
24 specific context in which the word is used. So on those
25 grounds, I object.

03158

1 MS. HOPFENBECK: Your Honor, this witness has
2 testified as to his interpretation of the Court of
3 Appeals decision in his opinion, and he advances that
4 interpretation in order to argue that the end to end
5 analysis is still valid. I'm just asking him his
6 interpretation of other aspects of the decision. If he
7 doesn't have an interpretation or can't -- I was going
8 to hand him the document, and he can look at it, and I
9 was going to produce copies to the Bench at this point,
10 because he obviously needs that in order to reference.
11 But I think it's an appropriate line of inquiry for an
12 expert who is using this decision as the basis of his
13 opinion.

14 (Discussion on the Bench.)

15 MS. HOPFENBECK: If I could interject, I mean
16 what I was going to do at this point is actually just
17 hand him the document and read from the document as
18 opposed to having him render an opinion at all. I will
19 withdraw that last question. I think that's the easiest
20 way, and that will conclude this line of inquiry.

21 JUDGE BERG: All right, let's do that.

22 BY MS. HOPFENBECK:

23 Q. Dr. Taylor, I have included page numbers at
24 the bottom of this decision since it's not a published
25 decision for ease of reference, and I direct you to page

03159

1 eight of this decision.

2 MS. HOPFENBECK: Oh, sorry, I should know
3 that it's published, but --

4 CHAIRWOMAN SHOWALTER: It is published.

5 MS. HOPFENBECK: It is published, and I don't
6 have the publication, so my apologies. I got this, I
7 think, before it had been published.

8 BY MS. HOPFENBECK:

9 Q. At any rate, I will direct you to page eight
10 of this copy of the decision, and in particular to the
11 second full paragraph on that page, about two thirds of
12 the way down.

13 A. Yes, would you like me to read something?

14 Q. Yes, if you would just begin with once again.

15 A. (Reading.)

16 Once again, however, the mere fact that
17 the ISP originates further
18 telecommunications does not imply that
19 the original telecommunication does not
20 "terminate" at the ISP. However sound
21 the end to end analysis may be for
22 jurisdictional purposes, the Commission
23 has not explained why viewing these
24 linked telecommunications as continuous
25 works for purposes of reciprocal

03160

1 compensation.

2 Q. Thank you. Now in your discussion of the
3 ILEC to CLEC interconnection model towards the top of
4 page 18 of Exhibit 1120, you discuss the fact that in
5 the local arrangement, both parties recover their costs,
6 and the cost causer is billed for the entire cost he or
7 she causes both carriers to incur. That's at lines
8 three through five.

9 CHAIRWOMAN SHOWALTER: Which page?

10 MS. HOPFENBECK: Page 18 of Exhibit 1120.

11 A. Yes.

12 BY MS. HOPFENBECK:

13 Q. Now that does assume that the subscriber's
14 calling patterns, assuming voice calls, follow sort of
15 the typical -- I mean look like average calls, average
16 voice calls, doesn't it?

17 A. Well, it does if you take this extremely
18 literally. I guess what I mean by this is there is a
19 mechanism by which on average, a regulatory mechanism or
20 a market mechanism, by which prices are charged, which
21 in the long run ought to recover costs. That's all I
22 mean by it.

23 Q. And those prices are the prices that are set
24 for local exchange service; is that right?

25 A. Yes.

03161

1 Q. And then the reciprocal compensation
2 mechanism that's been established in order for carriers
3 to compensate each other for the functions that they
4 perform in carrying those costs, correct?

5 A. I think so, yes.

6 MS. HOPFENBECK: Okay, that's all I have,
7 thank you.

8 MR. TRAUTMAN: Staff has no additional
9 questions.

10

E X A M I N A T I O N

12 BY DR. GABEL:

13 Q. Good afternoon, Dr. Taylor, I have a few
14 questions for you. First, there's been some discussion
15 in this proceeding about what are the load
16 characteristics of ISP traffic as opposed to ordinary
17 voice traffic. Are you aware of any studies that
18 present evidence on the load distribution of voice
19 traffic versus Internet traffic?

20 A. Yes.

21 Q. And could you explain what those studies have
22 shown and where those studies are to be found?

23 A. I can, except for confidentiality. That is
24 the one study I'm familiar with is on the record, I
25 believe some of the results of it are on the record in

03162

1 Texas. Texas had a mega arbitration on this subject
2 about a year ago, maybe two years ago now, and SBC
3 performed a cost study and a traffic study of ISP bound
4 traffic using its own data. And that data and that
5 study was on the record, and that's at least the one
6 place where I have actually seen data that tell me
7 roughly what the load distribution at least in Texas and
8 at least for one month in 1998 or so looked like.

9 Q. Mm-hm.

10 A. The logic that's in my testimony, I was
11 moderately careful, and Dr. Blackman was careful to
12 point out how careful I was, to say there were ifs in
13 there. That is there are reasons to think why the load
14 distribution might be flatter than for voice traffic,
15 mostly going around the weekend. And I don't know what
16 it's like in your house, but in my house on the weekend
17 everybody is on the computer; during the week, everyone
18 is at school or at work. And that fact, that hypothesis
19 I guess, that's one reason for thinking that the load
20 distribution might be flatter.

21 I think it's also important to be careful
22 that it's not really the load distribution just of ISP
23 traffic that we care about. What we care about, if
24 we're measuring costs by what the ILEC's costs are, what
25 we really care about is what happens when you add the

03163

1 ISP bound traffic to the load that's already on the ILEC
2 switch.

3 So if the load characteristics of ISP traffic
4 were identical, for example, to the current load
5 distribution, that would be the worst case, because that
6 would put -- I guess that wouldn't be the worst case.
7 The worst case would be if every ISP minute were at the
8 peak hour. But it would be a bad case, because it would
9 accentuate the peak as opposed to if it's different. If
10 it has a different peak, for example, that's a good
11 thing, because that tends to flatten the aggregate peak
12 when you add the two distributions together. So that's
13 the sort of thing --

14 Q. And the implication for determining the costs
15 of terminating an ISP bound call is that if you have a
16 flatter load curve, you effectively have a lower cost
17 per minute?

18 A. Yes, I mean really what it means is that a
19 smaller fraction of these minutes which we divide total
20 cost into are going to occur at the peak and thus will
21 carry no capacity costs with them if you're being
22 careful.

23 Q. Following on that point, if you're willing to
24 assume that currently the Commission has established a
25 traffic sensitive switching rate based upon identifying

03164

1 the busy hour cost and then spreading that out over all
2 minutes per year, is that your understanding in general
3 how rates and costs per minute are generally
4 established?

5 A. Yes.

6 Q. Okay. And is it also your understanding in
7 this proceeding that Qwest has not proposed a rate
8 structure where there is a separate setup charge and a
9 separate per minute rate?

10 A. Yes, that's my understanding.

11 Q. All right. And is it your understanding that
12 Qwest has proposed figuring out what would be the
13 average cost of terminating a call to an ISP based upon
14 the average length of a call to an ISP, and in making --
15 and in doing that calculation, the calculation would
16 separately identify the setup cost and the per minute
17 cost?

18 A. Well, what you say is correct. I'm not sure
19 that characterizes Qwest's position. You better check
20 with them. My understanding of Qwest's position is that
21 they don't want reciprocal compensation at all. That's
22 the thrust of most of my testimony. Given or if it is
23 the case that we are to have reciprocal compensation, I
24 think probably everyone agrees that the closer that rate
25 gets to cost, let's be deliberately ambiguous about

03165

1 whose cost for a moment, the better off we are.

2 And in that sense, separating the initial
3 minute from subsequent minutes is a partial solution to
4 one of the problems that I raise. It doesn't help the
5 load distribution question. For that, you would have to
6 propose time of day pricing. Maybe that's a good thing
7 or not; I don't know, and it doesn't solve the other I
8 think two cost differences that are in my testimony.

9 Q. Well, first, thank you for correcting me on
10 the Qwest position. But on this issue of there's a
11 setup cost for the first minute and then a subsequent
12 per minute rate, if in the end of the day we first
13 identify the setup cost and then the per minute cost,
14 and then we assume that an average ISP call is for 30
15 minutes in length, and then we establish a rate that's
16 just based upon a per minute charge, but it's based upon
17 the assumption of a 30 minute call, do you -- I'm --

18 A. Well --

19 Q. Where the -- where the per minute rate
20 averages in the setup charge and the per minute rate, my
21 question for you is, could you explain in your opinion
22 does this improve economic efficiency to -- if at the
23 end of the day we don't have a separate setup and a
24 separate minute charge, does that improve efficiency,
25 and if so, why?

03166

1 A. I believe it does if I understand what you
2 have said. If what you have said is separate out ISP
3 bound traffic, assume that all ISP bound traffic has 30
4 minute holding times, and then calculate the per minute
5 charge for a 30 minute call, and then charge all ISP
6 traffic at that rate whether it's 30 minutes or 10
7 minutes or 40 minutes, and the answer to your question
8 then is yes. Under that circumstance, that is one step
9 towards having a separate first minute and subsequent
10 minute charges, which might be a more efficient way. It
11 might track costs more closely, but then that might be a
12 more difficult thing to bill or to explain to customers
13 or something like that. But it does get at the
14 difference between the cost of a 30 minute on average
15 holding call as opposed to a 3 minute or 4 minute voice
16 call.

17 Q. Now on this topic of identifying setup costs,
18 are you aware of any cost models that measure setup
19 cost?

20 A. Yes, I thought they all did. That is ones
21 that I'm familiar with, and I'm not familiar with the
22 Qwest cost studies, but I do work for other companies.
23 SCIS, the usual switching cost model, produces separate
24 setup costs and holding time costs. So at least for the
25 world that uses SCIS, that's a readily available cost.

03167

1 Q. And SCIS is a model that you're familiar with
2 and you have defended, for example, in other forums?

3 A. Yes, it was -- originally comes from an old
4 AT&T model handed off to what was Bellcore, now
5 Telecordia, and it is one of the standard costing tools
6 that local telephone companies use. I would be
7 surprised if other competing cost models didn't look
8 separately at setup and duration, just because that's
9 the way the costs are incurred. Now they may not report
10 them separately in a convenient way, which SCIS does,
11 but I would be amazed if a cost system couldn't be made
12 to produce a setup cost and a duration cost.

13 Q. Based upon your knowledge, I would like to
14 focus on the switching cost information system, based
15 upon your knowledge of the switching cost information
16 system, SCIS, could you explain how SCIS develops the
17 setup costs? For example, is it based upon an
18 allocation of the getting started investment of a
19 switching machine?

20 A. I think the answer to your last question is
21 no, or at least I would be surprised if it did, because
22 SCIS run in its incremental cost mode isn't going to be
23 allocating getting started costs that I recall. How it
24 costs it out, that is setup as opposed to duration, is
25 looking at, and I'm sorry, I'm not up on SCIS at the

03168

1 moment, but as I recall, looks at the parts of the
2 switch that are used in setting up a call and then which
3 go away. So that's got part of the SS7 stuff is
4 involved in that, the stuff that processes SS7 signals,
5 as opposed to the duration costs which are just holding
6 open a path through the switch.

7 I haven't said that very well, but there are
8 different functions in the switch that correspond to
9 setting up the call as opposed to holding the call, and
10 my understanding of SCIS is it measures those two costs,
11 the costs of the facilities that are used for that just
12 separately.

13 Q. Just, you know, I understand in your last
14 response, Dr. Taylor, you said that you are not perhaps
15 up to date on the switching cost information systems, so
16 if we want to -- if you want to drop this line of
17 inquiry, it's fine with me. But I just want to lastly
18 focus on why, if SCIS isn't running in the incremental
19 mode but rather the average cost mode, why you would
20 think it may or may not be appropriate to allocate the
21 central processor costs based upon milliseconds to
22 activity of setting up calls?

23 A. No, my understanding of SCIS is really
24 limited to the incremental cost mode, because that's
25 sort of all I believe. If you ran it in an average cost

03169

1 mode from, I have had no experience in doing that, but I
2 would take it that what it's trying to calculate is
3 explicitly an allocation of all of the costs, including
4 the getting started costs of the switch, and there's no
5 reason not to, that I can think of, allocate those to
6 every function that the switch performs.

7 On the other hand, when I'm done with that, I
8 have an average cost, and as an economist, I don't know
9 what to do with that animal. I'm much happier with an
10 incremental cost, because I know what that means. That
11 means what the additional long run cost I'm going to get
12 if I run another call or another minute through the
13 switch. And for the average cost, I'm not sure what I'm
14 getting.

15 Q. For purposes of TELRIC, does it make more
16 sense to use incremental or average cost, because I --
17 what the question is implying is I guess I would like
18 you to address that if you use incremental, how does the
19 company recover its costs that aren't part of the
20 incremental cost but are part of the total costs?

21 A. Well, they don't do it on a cost basis. I
22 mean you and I have had this debate for many, many
23 years, but the recovery of total costs either of the
24 switch or of the firm beyond the direct causal
25 incremental costs is something which isn't done in the

03170

1 real world on a cost basis. That is, demand comes in,
2 markets come in.

3 There's a reason why the markup on Cadillacs
4 is much bigger than the markups on Chevrolets, and we
5 can't infer what even a competitive automobile market or
6 reasonably competitive automobile market produces solely
7 on cost grounds. You know, you and I can stare at the
8 cost function for producing cars, and we're never going
9 to come up with the relative markups that the market has
10 told us a Chevrolet commands and a Cadillac commands.
11 And that's as true of switches as it is of automobiles.

12 Q. But for switches, if this Commission is to
13 establish prices that are TELRIC based prices and if
14 you're using SCIS to produce incremental estimates, my
15 question for you is, then where do you recover the fixed
16 costs that aren't part of the incremental costs? Do you
17 do that as a common cost markup, or is it a direct
18 assignment to the switching elements?

19 A. Well, I can't speak again for Qwest, because
20 I'm not familiar with what their TELRIC studies look
21 like. The ones that I have testified to for other
22 jurisdictions do base costs on incremental costs,
23 usually using SCIS, and then take a markup for shared
24 fixed and common costs, as the FCC First Report and
25 Order instructs them to. We then have a largely

03171

1 non-economic debate about what the size of that markup
2 ought to be, but that's again just the question of is
3 this more a Cadillac than a Chevrolet, and costs are not
4 the answer to that question.

5 DR GABEL: Thank you.

6 JUDGE BERG: We'll take a 15 minute break, be
7 back at 3:25.

8 (Recess taken.)

9 JUDGE BERG: We will pick up with concluding
10 questions from the Bench.

11

12

E X A M I N A T I O N

13

BY CHAIRWOMAN SHOWALTER:

14

Q. All right, I have just a couple of questions.
15 One is regarding Exhibit 1120, page 48.

16

A. Yes.

17

18

Q. And it's about your sentence on lines nine
19 and ten. And you make the point that you think the LECs
20 would have an incentive to avoid competing to serve
21 customers that I take it are the customers who would use
22 the ILEC's, the ILEC's or the LEC's, the ILEC's system
23 to make an ISP call; is that right?

23

24

A. Yes, I believe that the incentive for a LEC,
24 ILEC or a CLEC, is to avoid customers who are likely to
25 make dial up Internet calls.

03172

1 Q. Okay. And my question is, in this situation,
2 wouldn't an ILEC at least have an incentive to gain the
3 ISP type business of its own customers, that is for the
4 very reason that it might not want just the voice
5 customer because it would have to pay that cost, in
6 order to avoid having that situation, it might want to
7 get that customer as an ISP, not an ISP, as an Internet
8 customer?

9 A. Yes, that's certainly true, but there are a
10 couple of things going on in that kind of competition.
11 The first is that the ILEC generally isn't also an ISP.
12 I mean it has it as some kind of affiliate of a holding
13 company or something like that. And sure, it's better
14 off if its affiliated ISP has all of the customer -- all
15 of its end users as customers so that none of its local
16 exchange customers are making calls to a CLEC's ISP.

17 I don't know that there's a mechanism, a
18 market mechanism that works through the customer side to
19 make that happen. That is, for Qwest or the ILEC to
20 subsidize its ISP affiliate, that's probably a nasty
21 word already, in order to enable them to lower the price
22 to their customers, the ISP's customers, in order that
23 all of those customers remain with the Qwest ISP, I
24 don't think that would work terribly well.

25 The other way that your comment I think has

03173

1 some -- has some interest is in competing for ISPs.
2 That is, Qwest has the same incentive you would think to
3 get ISPs as customers, because that way also Qwest's
4 subscribers won't be calling ISPs served by CLECs,
5 because Qwest has all the ISPs. So that too is another
6 kind of distortion that this world creates.

7 And I think you're right that Qwest has an
8 incentive, whether they can act on it or recognize it or
9 not, to serve as many ISPs as they can irrespective of
10 whether they're making money simply looking at their
11 books. Because by doing that, they're paying less
12 reciprocal compensation to CLECs. Surely the reciprocal
13 compensation part of it should be part of that
14 calculation.

15 I think all of that is true, but look how
16 distorted forms of competition we have here. I mean I
17 don't think that's what we really want to see, because
18 all of that is involving -- in the long run, we're
19 arguing about how the subsidy to Internet access is
20 going to be -- who is going to pay for it. And do we
21 want Internet users ultimately to pay their own way, or
22 do we want directly or indirectly telephone subscribers
23 to pay for that subsidy. And I think that's the
24 distortion that's at the bottom of all of this.

25 Q. Okay. But the distortion can cause

03174

1 incentives going two directions even though it remains a
2 distortion?

3 A. Sure.

4 Q. You have made out a pretty strong case that
5 ISPs are more like long distance companies, and that
6 therefore there should be -- there should be an access
7 charge or an access like charge. But I think you also
8 concede that's not about to happen, at least the access
9 charges.

10 A. Yes, it is certainly true that in our
11 lifetime one will not have carrier access or switched
12 access billed to an ISP. But we have to be careful,
13 ISPs do pay an access charge today. I mean it's not per
14 minute, and it's not out of a switched access tariff,
15 but the ISPs that CLECs serve pay a rate for basic
16 exchange or local exchange service that's market
17 determined. So they pay money, call it what you will,
18 they pay money to CLECs and to ILECs to get access to
19 the network.

20 That money isn't like switched access,
21 because it's not per minute, and it's not regulated,
22 blah, blah, blah, and the ESP exemption says you've got
23 to -- that's got to be part of the local tariff, so you
24 have to offer that to everybody I guess, not just to
25 ISPs. But that payment does have the same function that

03175

1 access charges serve for long distance carriers.

2 And whether that's enough money or not to
3 cover the costs, we don't know. I mean we haven't seen
4 -- nobody has -- no one in the country, I think, has
5 produced a viable CLEC cost study to say that whether or
6 not they're making money in aggregate from the money
7 they take from the ISPs, whether that actually covers
8 the traffic sensitive costs that they get.

9 Similarly for Qwest, for ILECs, I don't know,
10 though maybe Qwest does, whether they make money on
11 their ISP access business. That is, they charge the
12 local exchange, the basic -- the local PRI rate, for
13 example, to the ISPs that they have. Is that enough to
14 compensate them for all of the traffic sensitive costs
15 that we're talking about here that are involved when
16 their customers and CLEC customers access their ISPs? I
17 don't know, it might be enough.

18 Q. Okay. But if we assume that access charges
19 are off the table, then I guess I would like to compare
20 two propositions. One is the combination setup plus per
21 minute charge from the CLEC to the ILEC, which I
22 recognize reverses the way the money goes from what you
23 would have it do, but it does cover some costs, and
24 compare that to a bill and keep. And assume that the
25 setup charge, setup plus per minute charge is quite

03176

1 accurate, not even on a 30 minute average, just we
2 actually figure out what the appropriate setup charge is
3 and the appropriate per minute charge, and maybe it even
4 declines over time, over number of minutes. I don't
5 know, but just assume it's pretty accurate. How would
6 you compare those two modes first as to capturing costs
7 one way or the other, and then second as to incentives,
8 incentives for behavior?

9 A. Okay, well, let's do capturing costs first.
10 By design, let's assume that the setup and duration
11 accurately reflects the cost of whom, of the ILEC, is
12 that what we have in mind?

13 Q. Yes.

14 A. There are two possible costs.

15 Q. Right.

16 A. It could be the costs of the ILEC; it could
17 be the costs of the CLEC.

18 Q. Well, I guess since I'm trying to root this
19 in some of the actual proposals, it would be of the
20 ILEC, and it might be the avoided costs of the ILEC.

21 A. That was going to be my next question. I
22 don't think anyone has ever proposed that it be the
23 avoided costs of the ILEC. All of the studies that we
24 do for transport and termination are not avoided costs;
25 they are the incremental costs. And it's very different

03177

1 in this case, because the costs that an ILEC avoids when
2 a CLEC takes over serving an ISP have very little
3 bearing or are not really related too much to the costs
4 that the ILEC has when it serves -- when it serves an
5 ISP.

6 I have in mind the following. Suppose you
7 had an ISP that was served by Qwest and then one day
8 decided it would make more money if it were a CLEC. So
9 that's all it does, it fills out the papers, it does
10 whatever the Commission requires, and it becomes a CLEC.
11 But it doesn't move its location, it receives traffic
12 from Qwest exactly the way it did before, but now
13 instead of paying Qwest for access service, it is
14 receiving reciprocal compensation from Qwest. And
15 Qwest's costs in this example are exactly the same, so
16 Qwest saves nothing. There are no avoided costs in a
17 case like that.

18 Similar case, if the ISP served by the CLEC
19 and if the CLEC takes service directly from a Qwest end
20 office, Qwest doesn't save any switching function. So
21 there are no -- there's no switching in the avoided
22 costs.

23 Q. Oh.

24 A. My point is simply that avoided cost is very,
25 very different from the kind of TELRIC switching and

03178

1 transport costs, which is what we have been talking
2 about here.

3 Q. All right, well, then let's not do avoided
4 costs.

5 A. Let's not do avoided costs, yes, I agree.

6 So we're looking at what Qwest's incremental
7 costs of switching and transport are, or termination,
8 transport and termination are, and we're assuming we're
9 going to measure that accurately. So for efficiency, we
10 would have to ask -- then ask how does that payment
11 which would go to the CLECs relate to the costs that the
12 CLECs incur.

13 And, you know, my testimony describes some
14 reasons why I think those might be lower. If they are
15 lower -- if they're the same, then fine, then we have at
16 least the CLEC in this story is getting what it ought to
17 get, namely its forward looking incremental costs for
18 carrying the traffic, and nothing more. But if they
19 aren't, then we have the incentives to distort
20 competition and to invent traffic and all the sorts of
21 bad things that are mentioned in my testimony.

22 And I guess one of the big problems is --

23 Q. But only to the degree that is the case, that
24 the payment exceeds --

25 A. The costs are wrong.

03179

1 Q. -- the CLEC's costs?

2 A. That's correct, except one other element
3 makes that a little more serious, and that is the fact
4 that the traffic is essentially all one way or largely
5 one way. That is, when we invented reciprocal
6 compensation for ordinary local traffic, I think in the
7 back of everyone's mind was that CLECs and ILECs would
8 serve the same mix of traffic, and the traffic would be
9 roughly balanced. And if that's the case, you don't
10 care if there's a small error one way or the other in
11 the reciprocal compensation rate compared with the cost,
12 because it will balance out.

13 But where the traffic is essentially all one
14 way, it's kind of a knife edge arrangement, and if you
15 miss the -- if the rate that CLECs pay is lower than
16 their costs and we have this flood of Internet traffic
17 growing over time --

18 Q. You mean the rate the CLECs are paid is lower
19 than the costs?

20 A. Are paid, yes, sorry, lower than their costs,
21 is higher than their costs --

22 Q. Is higher.

23 A. -- then they have every incentive to increase
24 traffic, and vice versa if it happened to go the other
25 way.

03180

1 Q. All right, but that's -- so that's true, but
2 now compare it to bill and keep. In bill and keep, it
3 also seems that you might assume there was two-way
4 traffic or at least some kind of balance.

5 A. Sure.

6 Q. Which I think you're assuming there is not,
7 or you're opposing there is not.

8 A. Well, bill and keep has, the way I look at
9 it, is obviously not perfect either. The ILEC has to
10 get whatever its costs of carrying the traffic to the
11 CLEC point of interconnection are from its local
12 exchange customer, and if these cost characteristics are
13 very different than for ordinary voice traffic, that
14 poses a regulatory problem. The CLEC has to get its
15 costs from its customer, which is the ISP.

16 Well, it is restricted by the ESP exemption,
17 so it can only charge essentially flat rate charges that
18 appear in its local tariff. That doesn't, you know,
19 that doesn't mean it can't get all of its costs, even
20 including the costs of serving all of this traffic
21 sensitive -- of these traffic sensitive minutes which
22 are coming at it, but I grant you that it will be
23 inefficient because it will be billing ISPs a flat rate,
24 and some of the costs are these traffic sensitive costs
25 from Qwest subscribers reaching the Internet.

03181

1 Q. Well, is it fair to say that in either case,
2 either of those models may not be perfect in all cases?

3 A. Right.

4 Q. And so but bottom line, do you think that one
5 is less imperfect than another or preferable to the
6 other?

7 A. Yes.

8 Q. And if so, why?

9 A. Right, I mean I think my testimony goes
10 through a litany of impractical methods which don't
11 work, and I come to bill and keep before I come to
12 reciprocal compensation. Yes, I think bill and keep is
13 probably more efficient, a more efficient way for both
14 CLECs to recover their costs from their end user, from
15 the ISP, and for ILECs to recover their costs from their
16 end users, the telephone subscribers, mostly for I guess
17 for two reasons.

18 I mean one is I think the incentives are
19 better. Bill and keep's bad incentives are that if
20 you're a CLEC, you don't get any additional revenue to
21 cover the calling that comes in except the revenue that
22 you can get from your ISP customer generally on a flat
23 rate basis. So that's the inefficiency that they face.

24 On the ILEC's side, the world is a much
25 better place in the sense that they may have a similar

03182

1 problem recovering their costs, because they have to
2 haul this traffic all the way to the point of
3 interconnection, and that's not built into their local
4 tariffs typically. On the other hand, they're not
5 writing a check. Yes, they may have some costs they
6 can't recover, but they don't have the additional
7 payment on top of that for costs that they do not -- may
8 not save 100%.

9 The other point I think is that I think we
10 would all leap to bill and keep from an efficiency basis
11 if traffic were balanced. And I think the point is that
12 traffic is either balanced or not balanced depending
13 upon what we do in this docket. I mean we have an
14 incentive now under reciprocal compensation for CLECs to
15 seek out ISPs because compensation is such that it's a
16 very profitable thing to do.

17 Q. But I guess I'm -- you're comparing bill and
18 keep to reciprocal compensation, but there are variants
19 of reciprocal compensation that are different from what
20 we have today, and that's why I really want you to focus
21 in your comparison to the type of reciprocal
22 compensation that's been proposed. That is a setup
23 charge plus a per minute that I want you to assume is
24 fairly accurate.

25 A. Oh, okay, so under the assumption that --

03183

1 well, I think we're still in the same position. Even
2 under the assumption that the setup and duration charge
3 accurately reflects the costs of the ILEC, there's
4 still, my testimony says, other reasons why even if you
5 got setup and duration right, you don't have all the
6 other costs, cost differences that make costs lower for
7 serving specialized traffic with the load distribution
8 one to one switching concentration that this ISP bound
9 traffic has.

10 However, even if suppose we drop all of that
11 and take the leap that says these costs are accurate for
12 CLECs, so you've got a price or a rate structure for
13 reciprocal compensation which accurately reflects the
14 CLEC cost structure, and so they're going to get their
15 money back under reciprocal compensation. Under that
16 scenario, the inefficiency that remains compared to bill
17 and keep is that the ILEC is still paying -- is still
18 paying too much. It's not that the CLEC is receiving
19 too much, it's that the ILEC is paying too much or
20 incurring too much cost.

21 It incurs the costs that it always incurred
22 providing local traffic, but in addition, in those
23 circumstances where it is actually paying reciprocal
24 compensation and not saving anything, that its costs
25 don't -- are not reduced, the example being when an ISP

03184

1 simply metamorphosizes into a CLEC, an ISP changes to a
2 CLEC and no costs are saved, the ILEC in a reciprocal
3 compensation world, even if the price is right in the
4 sense we discussed, is still paying too much. It's got
5 all of its own costs, plus its got reciprocal
6 compensation, which is more than whatever costs it
7 saves, which is zero in our case, so we have that
8 additional source of inefficiency.

9 For bill and keep, today where CLECs have an
10 incentive to take one particular type of traffic, you
11 would have a large distortion until such time as the
12 pendulum swings. That is, the flow of traffic, whether
13 the traffic is balanced or not, is a function of what we
14 pay in all of this. And, you know, under bill and keep,
15 there no longer is an incentive for CLECs to seek out
16 customers who have lots of terminating traffic.

17 Maybe an equally distortion there, there's
18 another incentive for them under bill and keep to seek
19 out customers who have large amounts of originating
20 traffic, sort of the opposite one, but that's okay,
21 because that's the end on which we actually charge
22 people. We charge people for originating traffic; we
23 don't charge them for terminating.

24 CHAIRWOMAN SHOWALTER: Thank you.
25

E X A M I N A T I O N

1

2 BY COMMISSIONER HEMSTAD:

3

4 Q. Well, Chairwoman Showalter has really covered
5 much of what I was going to pursue. You have your
6 second alternative, your second best of revenue sharing
7 as you described it, has that been done anywhere?

8 A. No, not to my knowledge. I'm not -- well,
9 I'm not sure why not, except that it looks bad. I mean
10 in the sense that CLECs generally come in and argue, you
11 know, we're not getting recovery for our traffic
12 sensitive costs, and if a Commission were then to turn
13 around and say, well, we have thought about it, we like
14 this revenue sharing solution, and what we're going to
15 do for you is we're going to take some of the revenue
16 that you already get today from your customers, from
17 your ISP customers, and we're going to give that to the
18 ILEC, you know, that's sort of brutal, I guess. It's
19 efficient for the very reasons that are in my testimony,
20 but it goes against the sort of perception that what we
21 have here is a CLEC problem and not an ILEC problem.

22 You know, I disagree, I think it would be a
23 very reasonable thing to do. I don't think we have seen
24 anywhere a showing that CLECs don't make enough money
25 from their ISP customers to cover the total costs of the
ISDN PRIs that they sell to them plus the traffic

03186

1 sensitive costs for all the calls that come in. You
2 know, I don't think we've ever seen a study that says
3 that goes one way or the other, so, you know, I'm not
4 sure it's a bad thing. But it certainly -- it certainly
5 would be a revolutionary thing, let's put it that way.

6 Q. Okay. I'm looking at page 57 of Exhibit
7 T-1120, the last page and the last sentence:

8 In my opinion, because it is not based
9 on cost causation, reciprocal
10 compensation should not be an option at
11 all.

12 Well, Dr. Blackman, as I understand his
13 proposal, is premised on, well, we can tinker with this
14 until we get the prices right. And if we get the prices
15 right, then the competitors out there will do their
16 thing without distortions. Is it your position that if
17 we get the prices right by tinkering with reciprocal
18 compensation that it still would not be based on cost
19 causation?

20 A. Yes, I think it is. Some of the reasons that
21 we discussed with Chairwoman Showalter. First, what is
22 the right price? Is it the cost that the ILEC incurs
23 when it carries the traffic, is it the cost that the
24 CLEC incurs, is it the cost that the ILEC saves when the
25 CLEC comes in. Those are three different cost things at

03187

1 which you could set reciprocal compensation prices.

2 Q. Okay, but can't you tinker with that?

3 A. Well, you could tinker with each.

4 Q. Right.

5 A. I bet this Commission is clever enough to
6 find a way to set a rate which equaled any one of those
7 three, but those are three different numbers. So
8 there's no way you could find a rate which would equal
9 all three of them, because they're different. That's
10 one side of it, that's the make sure the CLEC is
11 compensated correctly side.

12 There's still the ILEC side of it. We have
13 the ILEC who suppose an ISP is sitting out there served
14 by Qwest, and then, well, how does it get its traffic to
15 it. It's a Qwest customer, it buys access service from
16 Qwest, it buys FX lines, it buys 800 numbers, things so
17 that you and I all over the state can dial a local call
18 and get into that ISP, and the ISP pays Qwest for that.

19 Okay, but then suppose that Qwest becomes --
20 the ISP becomes a CLEC, overnight everything changes.
21 Suddenly Qwest has to deliver all of the traffic to the
22 CLEC point of interconnection. It's not -- the payment
23 doesn't go anymore. So Qwest is now in a very different
24 position as far as recovering its costs than it was a
25 minute ago when this creature was just an ISP. When it

03188

1 became a CLEC, Qwest suddenly lost a whole lot of
2 revenue and no costs.

3 What do we do about on Qwest's side of it?

4 Well, the answer there, what tariffs do you have, you've
5 got the basic exchange tariff. That is, you can tinker
6 with what you charge local exchange customers for usage.
7 You could raise that price if you had to or lower it or
8 whatever would be necessary to make it track costs, but
9 that would involve at the end of the day all telephone
10 customers paying for these additional costs caused by
11 Internet usage. Now maybe Internet usage is either so
12 important or so ubiquitous that it doesn't matter much,
13 but that's another inefficiency, sort of an inescapable
14 inefficiency that you're going to have on the Qwest side
15 of this.

16 So I mean I think Dr. Blackman is right
17 theoretically, that if you got exactly the right prices
18 on both ends of this, you would have an -- you could
19 create an efficient reciprocal compensation system, but
20 I don't think it's possible to do. Because you have
21 three different cost characteristics on the one side,
22 and you've got two different sets of customers on the
23 Qwest side, and you don't necessarily want to bill
24 everybody for the costs of Internet access.

25 Q. Okay, but so you conclude that a bill and

03189

1 keep third best solution is the closest then to the cost
2 causation on both sides; is that a fair proposal?

3 A. Yes, I think it has cost causation right, the
4 idea that the ISP is the or his customers are the cost
5 causers, and I mean where it's inefficient is that it
6 has the prices wrong, just as reciprocal compensation
7 does. That is, on the CLEC side, they're getting money
8 from the ISP on a flat rate basis constrained by the ESP
9 exemption that may or may not be enough to cover all the
10 traffic sensitive costs. And on the Qwest side or the
11 ILEC side, they have the same problem, that they're
12 going to get their cost recovery from basic exchange
13 customers. They're their only customers.

14 Q. Is the consequence of the ESP exemption that
15 the CLEC can't charge the ISP at a different rate from
16 other customers; is that --

17 A. Well, I think that's right. I'm sure that's
18 right for ILECs. That is, ILECs I know at least must
19 charge ESPs out of their local exchange tariff. What --
20 how that pertains to CLECs, I don't know if that's a
21 legal requirement, but of course it's an economic
22 requirement in the sense that if after the dust settled
23 it was cheaper to go to -- for an ISP to go to Qwest
24 including reciprocal compensation payments, they would.
25 So that's an obvious constraint.

03190

1 Q. So if they charge the ISP, from your
2 perspective, the true cost, and here by filing a price
3 list that would be higher, then they would all gravitate
4 to the ILECs?

5 A. That's a constraint on the business, that's
6 correct.

7 COMMISSIONER HEMSTAD: Thank you, that's all
8 I have.

9

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

11 BY CHAIRWOMAN SHOWALTER:

12 Q. I forgot to ask a question about the revenue
13 sharing proposal.

14 A. Sure.

15 Q. And how is it distinguished from an access
16 charge in a legal sense, I guess? It sounds to me as if
17 it's requiring the CLEC to hand over some money to the
18 ILEC.

19 A. Oh, sure.

20 Q. And therefore, is this just a theoretical
21 idea on your part?

22 A. No.

23 Q. Or do you think it's actually doable under
24 the law?

25 A. Oh, well, it's doable under the law. It

03191

1 certainly doesn't, excuse me, from an amateur economist
2 point of view, it's doable under the law.

3 Q. That's all right.

4 A. Because the ESP Exemption deals with what
5 ISPs have to pay to get access to the network. This
6 doesn't deal with that at all, it deals with what the
7 ILEC or the CLEC does with that money. And it's
8 certainly practical, because you do that in long
9 distance as we speak. This example is one that's been
10 used historically all the time, particularly when you
11 have say an independent telephone company. You have
12 many here in Washington, I think.

13 Q. Yes, we do.

14 A. Many of which do not have points of
15 interconnection with long distance carriers. So if I'm
16 a customer in their territory, I dial AT&T, who is my
17 long distance company. That call goes from my ILEC
18 generally to Qwest and then to AT&T. Qwest bills AT&T
19 carrier access charges, takes the money, and splits that
20 with the originating ILEC on some proportion. It's
21 either meet point billing or some sort of cost sharing
22 arrangement.

23 And that's exactly what we're talking about
24 here. The call originates with -- the ISP bound call
25 originates with a Qwest customer. Qwest hands it off to

03192

1 the CLEC. CLEC hands it off to the ISP, bills the ISP,
2 not carrier access because that would be wrong, but for
3 the ISDN PRIs. And so whatever revenue they get,
4 however they get it --

5 Q. The they at this moment being the CLECs?

6 A. The CLECs, sorry, yes, the CLECs get whatever
7 money they get from the ISP, take that, split that with
8 the co-originating ILEC in this case on either a meet
9 point basis or a cost sharing basis or something like
10 that. I mean it's the way that co-origination of long
11 distance traffic has been done for years.

12 CHAIRWOMAN SHOWALTER: Okay, thanks.

13 THE WITNESS: Sure.

14

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

16 BY DR. GABEL:

17 Q. Dr. Taylor, I just want to follow up on this
18 question. You were asked about the revenue sharing
19 proposal that's in your testimony and the legality of it
20 in light of the ISP exemption from paying access fees.
21 And did I correctly understand you to state that you
22 didn't feel that it would violate that law, because the
23 revenue pooling proposal that you had made deals with
24 sharing revenues, not with the charges to the ISP?

25 A. Yes, that's correct. The ISP has the right

03193

1 to buy access to the network out of the local exchange
2 tariff, and nothing stops it from doing that.

3 Q. Okay. Is it your position, Dr. Taylor, as an
4 economist that if you take the existing price that is
5 received by a CLEC and then because now it has to hand
6 some of that to another party, some of that revenue to
7 another party, that that would have no impact on the
8 retail revenue to ISP customers? I'm asking now that
9 the CLEC is sharing its revenue, and as opposed to
10 keeping 100% of the revenue, as a matter of economics,
11 if there is revenue sharing, is it your position that
12 revenue sharing has no impact on retail price?

13 A. Oh, no, it will have a -- two things will
14 have a big impact. One will be the cessation of
15 reciprocal compensation payments. That by itself will
16 cause the PRI rates to rise. They have been reduced up
17 until now because the contribution from reciprocal
18 compensation is built into them. So PRI rates go up.

19 And the requirement that they be shared means
20 that the incremental revenue to the CLEC is going to go
21 down, so they will go up even further in order to get an
22 industry equilibrium where a marginal revenue is equal
23 to marginal cost, and average revenue is equal to
24 average cost for the ISP access market.

25 Q. And so after you have completed those steps,

03194

1 the ISPs end up paying a higher price as a result of the
2 revenue pooling?

3 A. That's correct, and what do we expect would
4 happen? The game doesn't end there. ISPs compete for
5 customers in a reasonably competitive market. One would
6 expect those, the prices that you and I pay, the \$19 a
7 month to AOL, could go up.

8 Q. Okay.

9 A. But that's rationalizing the ESP exemption,
10 which to date, people who use the Internet don't have to
11 pay for. And if we did this, they would have to pay for
12 it.

13 DR. GABEL: Thank you.

14 JUDGE BERG: Additional cross?

15 MR. KOPTA: (Shaking head.)

16 MS. HOPFENBECK: No, thank you.

17 JUDGE BERG: Redirect, Mr. Devaney?

18 MR. DEVANEY: Yes, I have several follow ups,
19 thanks.

20

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

22 BY MR. DEVANEY:

23 Q. Dr. Taylor, at one point during the
24 discussion you had over the last half hour or so, you
25 said something to the effect of this whole predicament

03195

1 that we face arises from the subsidy of Internet?
2 Access and the question is who is going to
3 pay for it. I take it you were referring then to the
4 ESP exemption; is that right?

5 A. Yes, that's correct.

6 Q. And now the ESP exemption prohibits both
7 CLECs and ILECs from collecting access charges from
8 ISPs, and as a result that prohibits them from, both
9 parties, the CLECs and the ILECs, from fully recovering
10 their costs; is that right?

11 A. Possibly. As I said, we really don't know
12 what the CLEC's costs of serving Internet traffic really
13 are, whether they're recovering in total enough money to
14 cover both the non-traffic sensitive costs of the ISDN
15 PRIs that they sell and the per minute costs of all the
16 traffic that they terminate.

17 Q. Okay. What I want to focus on is the notion
18 of competitive neutrality and ask you if reciprocal
19 compensation is permitted with the ESP exemption in
20 place, how will that affect the competitive balance, if
21 you will, between the CLECs on the one hand and the
22 ILECs on the other?

23 A. Well, I discuss that situation in my
24 testimony. That's the one which gives rise to different
25 incentives on the part of CLECs and ILECs, ultimately

03196

1 coming from the fact that the ILECs currently have 95%
2 of all the dial up Internet users, and those are the
3 people that generate reciprocal compensation. So that
4 reciprocal compensation has the effect of distorting the
5 competition for end users and the competition to serve
6 ISPs.

7 Q. Okay. And then in terms of cost recovery for
8 the ILEC and the CLEC, if reciprocal compensation is
9 allowed, which party is hit harder by the ESP exemption,
10 if you will, the ILEC or the CLEC?

11 A. Well, in principle, it must be the ILEC. The
12 CLEC if we got reciprocal compensation right, in
13 Chairwoman Showalter's sense, would be held whole, it
14 would be recovering its forward looking costs. But
15 there is nothing in reciprocal compensation that
16 purports even to hold the ILEC or to recover the costs
17 of the ILEC. Those are now mixed up in basic exchange
18 service, local usage, and the requirement to carry ISP
19 bound calls all the way to points of interconnection
20 plus then pay reciprocal compensation, which exceeds the
21 incremental costs avoided at least in many
22 circumstances.

23 Q. Okay. Still focusing on this principle of
24 competitive neutrality, you were asked to compare bill
25 and keep versus reciprocal compensation where the setup

03197

1 charge and the duration charge were just right. And
2 let's assume that the setup charge and the duration
3 charge were just right. How would that situation where
4 you had two correct charges, if you will, compare to
5 bill and keep in terms of competitive neutrality? Does
6 that make sense?

7 A. I think so, I'm not sure I know the answer.
8 Under reciprocal compensation with prices just right, it
9 is still the ILEC that has no mechanism for recovering
10 its costs, all of its costs from Internet traffic. So
11 at least some of the competitive distortions that
12 Chairwoman Showalter mentioned and that we discussed,
13 that is incentives to -- the ILEC's incentive to serve
14 all of the ISPs so that it doesn't have to pay
15 reciprocal compensation in excess of its avoided costs
16 and to avoid customers who might be inclined to make
17 dial up Internet calls, those are still present.

18 Now under bill and keep, competitive
19 distortion today is, you know, with the current set of
20 customers that CLECs have chosen, is that CLECs may or
21 may not be recovering all of their costs from the ISPs
22 that they have chosen to serve. So if on day one we
23 switched to bill and keep, the CLECs would have to look
24 at their books pretty hard to make sure that they're
25 getting enough in the charge for the PRI that they sell

03198

1 to cover all of their PRI costs plus the traffic
2 sensitive casts of all of the calls that come to them.
3 The result, as Dr. Gabel and I discussed,
4 will be that the rates that get charged for -- that
5 CLECs will be charging to ISPs will undoubtedly go up.
6 At the end of the day, that's going to be competitively
7 neutral, because what we're approaching is the situation
8 where Qwest is today in some sense. That is, Qwest
9 doesn't get any reciprocal compensation for serve --
10 when its customers, 95% of the residential customers,
11 call ISPs that it serves. So in a sense, this -- going
12 to bill and keep will move us towards a competitive
13 neutrality, I guess. Maybe that's where I'm trying to
14 go.

15 Q. Okay. You testified a few minutes ago, I
16 think in response to one of the Chairwoman's questions,
17 that there may be circumstances where an ILEC is paying
18 reciprocal compensation for Internet traffic if
19 reciprocal compensation is ordered where it wouldn't be
20 saving anything. Do you recall saying that?

21 A. Yes.

22 Q. And I think you had in mind the situation
23 where the CLEC is serving the ISP out of an end office;
24 is that right?

25 A. Yes.

03199

1 Q. If this Commission were to adopt a reciprocal
2 compensation rate for Internet traffic, do you think
3 that those situations where the ILEC isn't as you said
4 saving anything should be somehow factored into the mix
5 as a carve out or as having an effect on the rate that's
6 adopted?

7 A. Well, I don't know how you could do that. I
8 mean it's certainly an important policy issue that
9 should affect whatever mechanism is set up under
10 reciprocal compensation for the ILEC to recover its
11 costs. I mean one has to take into account that it's
12 going to be paying some reciprocal compensation in
13 excess of the costs that it saves, so it's going to have
14 to get that from somewhere, which as far as I know is
15 basic exchange service. So that would be the solution
16 that this problem or the direction of a solution this
17 problem would have, I think.

18 Because I don't think you can do anything on
19 the CLEC side. That is, I don't see trying to say
20 something about charging CLECs the avoided cost, because
21 that sets up a distortion. If you charge them anything
22 other than their own costs, that sets up the sort of
23 distortions that are in my testimony. And if you charge
24 them anything that's different from the ILEC's costs, we
25 are at war with the FCC. So, you know, what you have is

03200

1 a third criteria and you would like to put on the
2 reciprocal compensation rate, and you've only got one
3 rate, and you can't have three -- it can't equal three
4 different costs.

5 Q. Could you just clarify when a CLEC serves an
6 ISP out of an end office, why is it that Qwest or
7 Verizon is not avoiding costs?

8 A. Okay. Well, I think the main reason is the
9 cost that we always assume that they would avoid is the
10 cost of switching. That is, the model we all have in
11 our mind is that a call originates from a ILEC customer,
12 goes to the ILEC end office, goes to the tandem. Then
13 at the tandem, if the ISP is served by the CLEC and the
14 CLEC interconnects at the tandem, the ILEC is going to
15 save one end office switching function and the
16 associated transport. And that's roughly the
17 incremental cost arguably that we calculate when we
18 calculate the termination and transport costs.

19 But that's only the case when the call is
20 routed through a tandem. When the call goes directly
21 through the end office, Qwest will have at the end of
22 the day the same number of switching functions that it
23 does whether the ILEC -- whether the ISP is served by a
24 CLEC or directly out of the end office or the ISP is
25 served directly by Qwest out of the end office.

03201

1 Q. Okay. Just a couple of more follow ups,
2 Dr. Taylor. You said I think early on in your
3 cross-examination that ISPs are not end users from a
4 functional perspective. I don't think that you
5 explained beyond that. Could you just explain that
6 conclusion, please.

7 A. Sure, I mean it has two quick parts. And one
8 is that the only reason that people think ISPs are end
9 users, I believe, is because the FCC has made them end
10 users for paying basic exchange service for what the FCC
11 thinks is interstate access service. It's that sense in
12 which the FCC treats them as end users, not any other,
13 and that's the quasi legal sense.

14 The functional sense is that an ISP, like an
15 IXC, is somebody that you never call. I mean, you know,
16 you dial through them, you don't dial them. The
17 function of making a call when you sit down and either
18 think about calling a friend long distance or buying a
19 shirt on Lands End, that passes through a number of
20 telecommunications carriers possibly, about which you
21 could care less. All you care about is the end point of
22 your call, namely Lands End or Amazon.com or my friend
23 in Boston. And that's the sense in which both an ISP
24 and an IXC are not end users. The message doesn't stop
25 there functionally speaking.

03202

1 Q. All right. During your cross, you were asked
2 some questions about whether ISPs and CLECs are, in
3 fact, sharing the proceeds of reciprocal compensation;
4 do you recall that?

5 A. Yes.

6 Q. And I believe you said that you know of one
7 such circumstance where that has occurred. What
8 circumstance is that, and could you explain it, please?

9 A. Sure, that's U.S. LEC, an ILEC -- a CLEC in
10 North Carolina. The situation, I don't know how
11 familiar you are with it, there was a hearing before the
12 North Carolina Public Service Commission, the results of
13 which are public, so this isn't telling tales out of
14 school. The situation was that U.S. LEC thought it
15 would be a good idea to set up a business, they called
16 it Meticom, an affiliate or separate, well, they owned a
17 large portion of it, whose business plan was to place --
18 to give Internet access away to schools and churches in
19 North Carolina.

20 And the way it worked, if you were a school
21 or a church or a boy scout troop or a horse barn was if
22 you agreed to have a DS3 in your basement along with a
23 switch, a router actually, you could have Internet
24 access for free. And what would happen is the router
25 would set up hundreds of voice grade equivalent lines on

03203

1 this DS3, which BellSouth, which was the -- who was the
2 ILEC there, would carry to a termination point on U.S.
3 LEC's network. These circuits were up 24 -- 23 hours
4 and 59 minutes a day. They had to bring them down once
5 a day for billing purposes. And U.S. LEC, Meticom, were
6 billing BellSouth on the order of tens of millions of
7 dollars a month for reciprocal compensation. They were
8 similarly paying BellSouth millions of dollars a month
9 for the DS3s and the transport.

10 The case came before the Commission when
11 BellSouth figured out what was going on, they thought
12 this was probably not a good idea, and refused to pay,
13 and U.S. LEC complained to the Commission, brought the
14 case to the Commission. The Commission decided in very
15 strong language that this wasn't what reciprocal
16 compensation was intended to encourage. They had
17 examples of the horse barn that was making Internet
18 calls on 300 lines 24 hours a day, and they didn't
19 really think that was a good idea. And so it was thrown
20 out, that is U.S. LEC did not get its reciprocal
21 compensation. I think the narrow grounds were on the
22 fact that this -- the network that Meticom and U.S. LEC
23 set up was not a switched network, but had
24 characteristics of a dedicated network, to which
25 reciprocal compensation didn't apply. But it was a

03204

1 nasty, nasty case.

2 Q. Dr. Taylor, my last question is WorldCom's
3 counsel had you read into the record an excerpt from the
4 D.C. Circuit's decision in Bell Atlantic versus FCC
5 relating to the issue of essentially the meaning of
6 termination, and I wanted to ask you whether you wanted
7 to add any context to what you were asked to read into
8 the record?

9 A. Sure. The main context I would repeat again
10 is that I'm not a lawyer, and I'm the last person who
11 should be interpreting the court, but I would point out
12 my direct testimony at the bottom of page nine where all
13 of this discussion takes place, where I say regardless
14 of the outcomes of the remand decision and all of that,
15 I argue that an end to end analysis of the jurisdiction
16 of the call makes economic sense, and cost causation
17 tells you why an Internet bound call looks more like
18 long distance, falls into the long distance paradigm
19 rather than the local paradigm. I mean I think that's
20 where the argument should be based, not on sort of the
21 legal grounds.

22 And though I plead guilty to discussing the
23 decision, the bulk of my testimony deals with the
24 economic reasons why an ISP bound call has more of the
25 characteristics of a long distance call than of a local

03205

1 call.

2 MR. DEVANEY: Thank you, no further

3 questions.

4 JUDGE BERG: Dr. Gabel.

5

6

E X A M I N A T I O N

7 BY DR. GABEL:

8 Q. I just want to follow up in two areas,
9 Dr. Taylor. First, in response to Mr. Devaney, you
10 talked about the costs that were avoided when an ISP was
11 served by a CLEC. Do you recall that discussion?

12 A. Yes.

13 Q. And you used an example where the traffic
14 initially would have flown through a tandem, and you
15 said in that situation there would be avoided costs?

16 A. Yes.

17 Q. And is it your position, Dr. Taylor, if the
18 call had originated on one ILEC's end office and the ISP
19 was located in a separate central office but still
20 served by the ILEC that there would be no avoided costs
21 when the ISP moves from the ILEC to a CLEC?

22 A. Depending on how the CLEC receives service, I
23 think the answer is yes. The diagram -- is there a
24 marker. It's a quick diagram, it will help me to think
25 too. I can't do this without -- I think the example

03206

1 Dr. Gabel has in mind is we have an end user served by
2 the ILEC central office, which let's suppose is directly
3 connected, that is not through a tandem, to the second
4 ILEC central office or end office. And at day one, we
5 have an ISP that receives service from that ILEC central
6 office. And then I think Dr. Gabel asks, what happens
7 if this ISP decides to take service from a CLEC whose
8 central office is say up here. And in what sense or in
9 what case do we save -- does the ILEC save a switching
10 function. Well, if the ILEC receives service from this
11 ILEC -- I'm sorry. If the CLEC takes service from the
12 ILEC central office, then we still have two switching
13 functions that the ILEC has to undertake. If -- well, I
14 guess this is red -- more likely perhaps there is a
15 tandem up here and the ILEC takes service out of the
16 tandem --

17 MR. DEVANEY: The CLEC takes service out of
18 the tandem?

19 A. Correct, sorry, the CLEC takes service out of
20 the tandem, see, this is the ILEC tandem, then what we
21 would have most likely is the exchange of a tandem
22 switching function for an end office switching function.
23 And whether that saves costs or not, I don't know, but
24 it's not, you know, it might or it might not.

25 But in any case, the main example I had in

03207

1 mind was just when the ISP turned itself into a CLEC,
2 and then there is no change at all. You know, kind of
3 in total if you think of all the different examples, and
4 all of these can happen all at the same time with
5 different arrangements in the network, the only time in
6 which the ILEC actually saves a full cost of switching
7 and transport I think is when we actually go through a
8 tandem and would then have had to serve the ISP through
9 an end office, in which case it will -- you would use
10 the CLEC end office instead of the ILEC end office, and
11 we would save what we usually calculate as the
12 incremental cost of switching and termination and
13 transport. In every other case, we save something
14 that's less than that.

15 So aggregate all of that up, and in total I
16 have to believe that the aggregate cost of transport and
17 termination for the ILEC has to be less than -- it has
18 to save less than the aggregate cost. It only saves it
19 in one case, and it doesn't save as much of it in lots
20 of others.

21 Q. But, Dr. Taylor, if there is a direct
22 connection from your end office on the left to the
23 CLEC's central office, then there are avoided costs?

24 A. Yes, then I have exchanged my end office
25 switch for its end office switch.

03208

1 Q. All right. And last question on this
2 diagram, Dr. Taylor, and this gets to the technology,
3 initially your central office that's in the middle of
4 your diagram, the one that initially served the ISP was
5 an end office, right?

6 A. Yes.

7 Q. And you have now effectively made it into a
8 tandem, because in your diagram you're now routing the
9 traffic through that office to get to the CLEC; is that
10 correct?

11 A. I am -- well, the CLEC has chosen to receive
12 service from my end office. It can take service
13 anywhere it likes in my network. It can attach to my
14 end office, or it can attach to my tandem.

15 Q. All right, thank you. Now I'm going to move
16 on to another topic, and this is the last question, and
17 that is just a follow up to both the Commissioners' and
18 Mr. Devaney's questions about incentives for
19 investments, and you have eloquently expressed your
20 concern about how under today's bill and keep that CLECs
21 may not have an incentive to go out and serve customers,
22 and you have really focused on residential customers as
23 a group of customers that they have an incentive to
24 avoid. Is that a fair characterization of your
25 testimony?

03209

1 A. Well, it is except I think you said bill and
2 keep --

3 Q. Oh, I wanted to say --

4 A. -- where I think you want to say reciprocal
5 compensation.

6 Q. Thank you, reciprocal compensation.

7 A. Yes.

8 Q. Thank you. All right, I understand your
9 logic, but also, Dr. Taylor, is it fair to say that
10 you're rather familiar with the activities of the CLECs
11 in the state of New York because you have looked at that
12 market in support of Verizon's 271 application in that
13 state?

14 A. Yes.

15 Q. Or other states?

16 A. Yes, that's fair.

17 Q. Now in those states where, let me first ask,
18 is it the case in Texas and in New York that reciprocal
19 compensation is paid for ISP traffic?

20 A. Yes.

21 Q. Okay. In those states, haven't you testified
22 and reported how the CLECs are out actively marketing to
23 residential customers using the UNE platform?

24 A. Yes, I certainly have.

25 Q. And so the question I would like you to

03210

1 explain is, in light of what you observed, how do you
2 juxtapose what you have observed with the logical
3 argument that you have presented here on this topic?

4 A. What we see in Texas and New York is the
5 removal of another constraint which is distorted
6 competition, namely the fact that in Texas and New York,
7 the ILEC and the RBOC can provide long distance, so that
8 if AT&T and WorldCom and Sprint want to continue to sell
9 long distance in those states, they're going to have to
10 attract residential customers. It is still the case
11 even in New York and in Texas that reciprocal
12 compensation is an incentive not to. That is, it's
13 working in the other, in the opposite direction.

14 But what you have seen, and what I testified
15 to, is when you remove the long distance constraint, at
16 least long distance carriers, perhaps not other CLECs,
17 but at least the long distance carriers now have a
18 bigger incentive than they had before and went out and
19 attracted more residential customers than they did
20 before.

21 They would attract or have an incentive to
22 attract even more if we were under bill and keep. So it
23 doesn't -- I don't think there's a contradiction in my
24 testimony. We have just removed in those states one
25 other competitive distortion, which has had the effect

03211

1 of encouraging residential -- competition for
2 residential customers.

3 DR. GABEL: Okay, I promised that was my last
4 question.

5

6 EXAMINATION

7 BY CHAIRWOMAN SHOWALTER:

8 Q. I just have one more. I want to make sure
9 I'm tracking your argument. You mentioned a couple of
10 times that there are three costs or measures by which
11 you could measure recip comp, and it can't be all three
12 at once, but just repeat for me what they are or show we
13 in your testimony what you meant.

14 A. Sure. Okay, the three are the three cost
15 concepts that you could use. One is the forward looking
16 incremental cost of the ILEC for transport and
17 termination. The second is the ILEC's avoided cost when
18 a CLEC provides service to the ISP. And the third is
19 the CLEC's cost of terminating calls or supplying
20 transport and termination to the ISP.

21 CHAIRWOMAN SHOWALTER: Thanks.

22 THE WITNESS: Sure.

23

24 RECROSS - EXAMINATION

25 BY MR. KOPTA:

03212

1 Q. Just one follow up to the exchange that you
2 had with Dr. Gabel about your experience or your
3 observations in New York. Am I correct that both the
4 Public Service Commission in New York and the FCC found
5 that there was sufficient residential competition in
6 those states prior to granting the 271 application of
7 Bell Atlantic?

8 A. Yes, I mean that's the requirement of 271.
9 On the other hand, I think if you look at the history of
10 competition particularly for residential customers, you
11 find a tremendous otherwise unexplained spurt of
12 interest on the part of AT&T, WorldCom, and Sprint on
13 serving residential customers in those states where it
14 became evident to everyone that the commission, state
15 commission and the FCC were going to approve long
16 distance service.

17 Q. And at the same time, the New York Public
18 Service Commission took some steps to make the UNE
19 platform available in New York at least for the next
20 three or five years, I don't remember which, prior to
21 the UNE remand order, so that it set up the ability of
22 IXCs to use the UNE platform to provide residential
23 service, didn't it?

24 A. Yes, that's correct.

25 Q. And is it your understanding that in this

03213

1 docket, the rates for UNE-P at least are being presented
2 to this Commission essentially for the first time?

3 A. I'm not really familiar with the history of
4 UNE-P in Washington.

5 Q. But you are aware that UNE-P costing and
6 pricing issues are before the Commission in this docket?

7 A. Yes.

8 MR. KOPTA: Thank you, that's all I have.

9 MR. DEVANEY: Nothing, thank you.

10 JUDGE BERG: All right, Dr. Taylor, thank you
11 very much for your time and for your testimony here
12 today. You are excused from the hearing.

13 THE WITNESS: Thank you, sir.

14 JUDGE BERG: We will be off the record.

15 (Hearing adjourned at 4:45 p.m.)

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