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Case Number: 96-899-TP-ALT

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1 PUBLIC UTILITIES COMMISSION
2 STATE OF OHIO
3 - - -

4 In the Matter of the)
5 Application of Cincinnati Bell)
6 Telephone Company for Approval) Case No. 96-899-TP-ALT
7 of a Retail Pricing Plan Which)
8 May Result in Future Rate)
9 Increases and for a New)
10 Alternative Regulation Plan.)

11 Hearing Room 11-D
12 Borden Building
13 180 East Broad Street
14 Columbus, Ohio 43215
15 Thursday, March 18, 1999

16 Met, pursuant to assignment, at 10:00 o'clock a.m.

17 BEFORE:
18 Dwight Nodes, Attorney-Examiner.

19 VOLUME IX
20 - - -

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P R O C E E D I N G S

- - -

Thursday, March 18, 1999

Morning Session

- - -

Thereupon, CoreComm Exhibit Nos. 2 and 3
were marked for purposes of identification.

- - -

THE EXAMINER: Let's go on the record.

Mr. Petrilla, you want to call your witness?

MR. PETRILLA: Yes, your Honor. Do you want to swear
him?

THE EXAMINER: I will.

MR. PETRILLA: Okay.

(Witness placed under oath.)

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1 PETER GOSE

2 of lawful age, being first duly placed under oath, as prescribed
3 by law, was examined and testified as follows:

4 DIRECT EXAMINATION

5 BY MR. PETRILLA:

6 Q. Would you please state your name for the record?

7 A. Peter Gose.

8 Q. What is your address, Mr. Gose, business address?

9 A. Business address is 15938 Ledge Road Drive, Parker,
10 Colorado 80134.

11 Q. Who is your employer, Mr. Gose?

12 A. I am employed by Quantitative Solutions.

13 Q. Okay. And how did you come to be a witness in this case?

14 A. My former firm that I previously worked for, Competitive
15 Strategies Group, was approached in the summer of 1998 by a law
16 firm here in Columbus, Arter & Hadden I believe the firm was, to
17 see if they could -- to see if Competitive Strategies Group
18 could provide some assistance with respect to cost study review.
19 And Competitive Strategies Group accepted that engagement and
20 assigned me to it.

21 Q. And Quantitative Solutions is the successor to Competitive
22 Strategies Group?

23 A. Not necessarily. Competitive Strategies Group is still a
24 going concern. Quantitative Solutions is merely an offshoot of
25 that firm.

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1 Q. Okay. You have before you two pieces of testimony, one
2 marked Exhibit No. 2 and one marked Exhibit No. 3 for CoreComm.
3 Can you please tell us what Exhibit No. 2 is?

4 A. CoreComm Exhibit No. 2 is a copy of my direct testimony
5 filed in this case, including what appears to be all exhibits.

6 Q. Okay. Mr. Gose, if I asked you the questions that are in
7 that piece of testimony today, would you give the answers that
8 are reflected in that testimony today?

9 A. Yes.

10 Q. All right. Do you have any corrections to make to that
11 testimony?

12 A. To my direct testimony, Exhibit 2, I have just a few.

13 Q. Okay. Could you please tell us what those are?

14 A. Certainly.

15 I believe we've already touched upon the first correction,
16 which would be my employer on Page 1, should now read
17 "Quantitative Solutions" instead of "Competitive Strategies
18 Group".

19 The second correction is on Page 11, Footnote 7, the state
20 that this case was issued in was inadvertently omitted, that
21 state is Maryland.

22 On Page 44, Line 10, it should read, "further adjustments
23 made,". And on Line 21 of that same page the first sentence
24 there should read, "the current CBT rates"; there was a
25 transposition of two words.

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1 Finally on Page 86, there is a section under a question on
2 Line 5 that says, "Do you consider your price squeeze analysis
3 to be conservative", and this was a section that was
4 inadvertently left in the testimony. My price squeeze analysis
5 has nothing to do with services that would require loop
6 conditioning, so that portion of my testimony may be ignored.

7 THE EXAMINER: Well, which portion? Just to be clear
8 for the record.

9 THE WITNESS: Certainly, Judge. Line 5 through
10 Line 12.

11 Those are all the corrections that I have to what's
12 been labelled as CoreComm Exhibit 2.

13 BY MR. PETRILLA:

14 Q. All right. Mr. Gose, you also have before you CoreComm
15 Exhibit No. 3. What is that?

16 A. Exhibit No. 3 is a copy of the supplemental testimony that
17 was filed in this particular case.

18 Q. Okay. If I asked you the questions that are contained
19 therein, would you give the same answers?

20 A. No.

21 Q. All right. Do you have any corrections to make?

22 A. Yes. During the deposition in this particular instance we
23 noted a few items that were incorrect, and Mr. Hart asked me if
24 I would be making corrections to those items. I have done that
25 and I have filed those corrections, both on ZIP disk with

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1 Mr. Hart and with the staff. And the answers that would be
2 contained in those files on that ZIP disk would be different
3 than the answers listed on Page 3, Line 4.

4 Q. All right. What would be the answer that you would give to
5 the question on Lines 1 through 3 of that page?

6 A. On -- The answer that I would give would simply be that the
7 numbers would be different.

8 Q. Okay. Do you have any other corrections to make?

9 A. Not to the supplemental testimony, no.

10 Q. Okay.

11 THE EXAMINER: Well, for the sake of the record, why
12 don't you give us the numbers since nobody else has the ZIP
13 disk?

14 THE WITNESS: Certainly. The number for -- that would
15 replace the \$7.55 would be \$7.12; the number that would replace
16 the \$9.63 would be \$9.21; and the number that would replace the
17 \$10.84 would be the \$10.52.

18 THE EXAMINER: Those are the only changes to your
19 supplemental testimony?

20 THE WITNESS: That's correct.

21 THE EXAMINER: Okay.

22 MR. PETRILLA: All right. I make the witness
23 available for cross.

24 THE EXAMINER: All right. Mr. Hart.

25 MR. HART: Thank you, your Honor.

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2

CROSS-EXAMINATION

3

BY MR. HART:

4

Q. Mr. Gose, the firm you work for, Quantitative Solutions,
5 that was a firm -- that firm was formed by Mike Starkey; is that
6 right?

7

A. That's correct.

8

Q. And Dr. Gus Ankum also works for that firm?

9

A. He does.

10

Q. And I take it your firm is simultaneously providing
11 assistance to MCI and to CoreComm in this proceeding?

12

A. That would be a fair statement based upon the fact that
13 those three colleagues are associated together.

14

Q. And not only are you associated together, you have
15 collaborated in your work here, haven't you?

16

A. To some extent, yes.

17

Q. And you have largely borrowed from Mr. Starkey's testimony,
18 haven't you?

19

A. I have borrowed from Mr. Starkey's testimony with respect
20 to certain areas he has discussed regarding DLC, and I have also
21 borrowed in my test- -- or, from his testimony with respect to a
22 Excel-based model to recalculate the loop model of CBT.

23

Q. Okay. And you frequently even cite to his testimony in
24 yours, don't you?

25

A. In some instances, yes.

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1 Q. And you occasionally cite to Dr. Ankum, as well, don't you?

2 A. I believe in one or two instances that would be the case.

3 Q. Okay.

4 THE EXAMINER: Let's go off the record a minute.

5 (Discussion held off the record.)

6 THE EXAMINER: Back on the record.

7 MR. HART: Thank you, your Honor.

8 BY MR. HART:

9 Q. Am I correct you have also relied upon analysis done by
10 John Hirshleifer and Richard Lee?

11 A. That's correct.

12 Q. And that would be in the topic of cost of money and
13 depreciation?

14 A. Yes.

15 Q. You have not, yourself, performed any calculation of the
16 cost of money, have you?

17 A. No, I have not.

18 Q. Am I correct that there are several issues in this case
19 where MCI and CoreComm have taken different positions?

20 A. With respect to the recreating a loop model, that may be a
21 fair statement.

22 Q. Okay. One of those examples is whether or not the West 7th
23 central office should be separated as a band by itself; is that
24 right?

25 A. That's correct.

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1 Q. CoreComm has performed its analysis as if West 7th Street
2 was still part of Cincinnati Bell's Band 1, hasn't it?

3 A. That was correct, yes.

4 Q. And MCI has been advocating that it be broken out
5 separately?

6 A. That's my understanding.

7 Q. And I take it from a number of Mr. Petrilla's questions
8 during Cincinnati Bell's case, that CoreComm's primary interest
9 is to serve residential customers; is that correct?

10 A. That's correct.

11 Q. And is MCI's focus here to serve the business market?

12 A. I can't speak to what MCI's focus is.

13 Q. Are you familiar with the -- the way Cincinnati Bell
14 originally weighted loops between business and residence?

15 A. In the original loop cost studies we received, there were
16 some original weightings -- and those original weightings, I'm
17 certain we'll have an opportunity to discuss the loop model at
18 some future point today -- but originally Cincinnati Bell
19 provided certain weightings and, in fact, the corrections that I
20 made to my supplemental testimony today, one of those
21 corrections takes into account those original weightings.

22 Q. Okay. I understood from a letter Mr. Petrilla sent me that
23 you reversed the weightings in Band 3; is that right?

24 A. I think that was in the original model that was sent out,
25 yes.

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1 Q. Okay. In the numbers you just gave us a moment ago, what
2 loop weightings did you use for those?

3 A. For Band 1 I used a business weighting of 79.63 percent,
4 and a residence weighting of 20.37 percent. I used a -- for
5 Band 2, business weighting of 22 percent and a residence
6 weighting of 78 percent. And for Band 3 I used a business
7 weighting of 17.06 percent and a residence weighting of 82.94
8 percent.

9 I would supplement my answer by stating that I received in
10 discovery from CBT current weightings at a future point or at a
11 future period and I contemplated using those weightings in the
12 model, but I thought it more appropriate, since I was drawing
13 information from the loop model at a specific period of time for
14 loop investment and those type of items, to keep the time
15 periods consistent and use the investment data for the loops as
16 well as the appropriate weightings at that time period together
17 instead of alternating two different time periods.

18 Q. Let me show you a letter that Mr. Petrilla sent me, it's
19 dated February 25th, where he discusses how you did the
20 weightings. And tell me if that's accurate as to what you did.

21 A. That was accurate when the X on the composite sheet -- or
22 let me -- was in the column labelled MCI, which was titled a
23 "Loop is a Loop", and for the original studies, that's correct,
24 that's what I did. But for what was sent out and for the
25 purposes of the rates that I correct in my supplemental

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1 testimony today, I have used the weightings that I just
2 discussed with you.

3 Q. Do you have a printout of that latest run?

4 A. No, I do not.

5 Q. So we're not able to look at it on paper and see exactly
6 what weightings are in there?

7 A. No. I can provide that at a later date.

8 Q. Well, let's move on.

9 So your testimony is the numbers you gave us today are
10 based on the actual weightings that Cincinnati Bell is
11 proposing?

12 A. They're based upon the actual weightings that Cincinnati
13 Bell originally filed with its loop cost study. And with -- I
14 should clarify that. In the loop cost study, in the back of it
15 there were what they call loop samples and it was based upon the
16 weightings of those loop samples.

17 Q. Okay. It was not a straight 80/20, it was the actual
18 numbers?

19 A. That's correct.

20 Q. Okay. Am I correct you don't have any engineering
21 background?

22 A. That's correct.

23 Q. And you've never actually worked for a telephone company,
24 have you?

25 A. No, I have not.

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1 Q. Could you tell us what your field of expertise is that you
2 claim you have?

3 A. Certainly. First of all, in order to get your arms around
4 something of this magnitude it would be helpful to know I have a
5 background in regulation. I spent six-and-a-half years with the
6 Missouri Public Service Commission. And in that capacity I was
7 serving in a position entitled federal communications analyst.

8 And the notices of proposed rulemaking that came out of the
9 Federal Communications Commission, I was responsible for
10 drafting the Commission's position and then taking that to the
11 agenda, getting their changes and getting those comments filed.
12 So from that standpoint, I was required to gain a very general
13 and broad knowledge of the telecommunications industry; which
14 included visits in fieldwork, watching plant be installed,
15 included visiting central offices, those type of things.

16 Educational background certainly kind of comes into play.
17 I have a Master's degree in business administration. And when
18 you're working with models of this magnitude, it helps just to
19 have some type of a quantitative ability to develop large
20 spreadsheets and integrate all the different pieces together to
21 perform sensitivity analyses, if you will.

22 And, in fact, by taking the recreated loop model that
23 Mr. Starkey originally developed and augmenting it to be able to
24 look at not only Band 1, but Bands 2 and 3, as well, I would say
25 that's an area of expertise I have with respect to being able to

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1 develop and utilize those type of quantitative models.

2 Q. Okay. So your expertise is quantitative analysis?

3 A. With respect to developing spreadsheet models and also with
4 respect to my broad regulatory experience that I gained by
5 working at the Missouri Public Service Commission.

6 Q. Do you claim any expertise in finance?

7 A. I have an undergraduate degree in finance.

8 Q. Are you an expert in determining cost of capital in
9 regulatory proceedings?

10 A. That's not something I have testified to solely where I
11 came into a proceeding and said the cost of capital should be X"
12 percentage; it's not an area of expertise that I have.

13 Q. Have you ever done a cost of capital analysis for a
14 telephone company?

15 A. Not for regulated purposes, I -- as I stated in my
16 deposition, while I was employed at the Missouri Public Utility
17 Commission I took a course designed specifically for employees
18 of the Commission, and that course was taught by the finance
19 faculty at the University of Missouri and it was entitled
20 "Modern Finance Theory for Regulated Firms". And, in fact, as a
21 homework assignment in that particular case, I had to calculate
22 the cost of capital for Southwestern Bell.

23 Q. That's the extent of what you've done in that field?

24 A. Yes.

25 Q. Are you an expert on depreciation?

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1 A. No, I am not.

2 Q. Are you an expert on network design?

3 A. No, I do not have specific expertise there.

4 Q. Are you an expert on construction?

5 A. No.

6 Q. Now, in your testimony on Page 2, Line 4, you indicate that
7 CoreComm plans to construct its own facilities in the future; do
8 you see that?

9 A. Yes.

10 Q. Wouldn't that make CoreComm a competitor to Cincinnati Bell
11 for facilities?

12 A. It's my understanding, and the reason why I included that
13 section in my testimony, was because it's my understanding
14 CoreComm intends to provide its own switching facilities.
15 Whether or not CoreComm plans to duplicate loop plant to
16 customers, I do not know. That's -- If that's their plan and
17 intention, that has not been shared with me.

18 Q. Are you aware that several other new competitors plan to
19 build their own switches, as well?

20 A. That's my understanding.

21 Q. In fact, there's at least three switches that have already
22 been built in Cincinnati, aren't there?

23 A. From your statements in the deposition, I'm aware that Time
24 Warner has one, the other two I'm not familiar with.

25 Q. Do you know whether MCI has a switch in Cincinnati?

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- 1 A. I've never inquired of them as to whether ---
2 Q. Do you know whether TCG has a switch in Cincinnati?
3 A. No, I do not.
4 Q. Do you know of anybody else that has a switch in
5 Cincinnati?
6 A. No.
7 Q. Do you know of any telephone company that plans to buy
8 switching from Cincinnati Bell?
9 A. On an unbundled or resale basis?
10 Q. Unbundled.
11 A. Not at this time.
12 Q. Are you aware of Time Warner's plans to use its cable
13 system for loops?
14 A. Only from what I have read in the newspapers.
15 Q. And you're aware from the newspapers that AT&T is a partner
16 with Time Warner now?
17 A. That's correct.
18 Q. Would that provide facilities-based unbundled network
19 element competition to Cincinnati Bell?
20 A. That could possibly be, although it would be based upon an
21 entirely different type of technology.
22 Q. It's a different technology, but it provides the same
23 service, doesn't it?
24 A. It could, yes.
25 Q. In fact, through the course of history, different

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1 technologies have come along and replaced older technologies,
2 haven't they?

3 A. That's fair.

4 Q. And coaxial cable fiber networks are one of those types of
5 technologies that have emerged, aren't they?

6 A. While those are the types of technologies that are emerging
7 and replacing, say, for instance, telecommunications
8 provisioning of voice-grade service, new technologies are also
9 emerging with respect to telecommunications-type plant replacing
10 that same coaxial cable.

11 I cite an example, U.S. West has a project in Phoenix,
12 Arizona which they call VDSL, or very high digital subscriber
13 line, where they can provide television service over the twisted
14 pair right into your home. So it cuts both ways.

15 Q. Now, CoreComm's not totally a residential company, are
16 they?

17 A. In terms of your question, do you mean do they provide
18 service to business customers, as well?

19 Q. Right.

20 A. That was my understanding in speaking with the folks from
21 CoreComm, that if a business customer requests service, they
22 will accommodate them if they can, but their primary focus, once
23 again, is to serve the residential market, who are, in the
24 competitive world, what I see as a vastly underserved segment of
25 the market.

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1 Q. Let me show you a document.

2 MR. HART: If we could mark this as CBT 15, I believe.

3 THE EXAMINER: That sounds right.

4 - - -

5 Thereupon, CBT Exhibit No. 15 was marked

6 for purposes of identification.

7 - - -

8 BY MR. HART:

9 Q. Mr. Gose, this is a printout that I made on Saturday from
10 CoreComm's Internet site. Have you ever seen this before?

11 A. I have neither seen this document nor their Internet site,
12 in fact. At the time I produced my testimony, I attempted to
13 visit their Internet site and they didn't have one at that time.

14 Q. Okay. When did you try to do that?

15 A. Back in December.

16 Q. Okay. Now, you see the first sentence there, it says,
17 "CoreComm is a full-service telecommunications company that
18 offers local residential and business telephone service"?

19 A. Yes.

20 Q. And third question, the answer says, "CoreComm offers
21 residential and business service throughout Ameritech Ohio
22 territory and is activity pursuing all markets in Ohio"; is that
23 right?

24 A. That's correct.

25 Q. Now, if CoreComm did choose to focus its marketing towards

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1 residential customers, that's its own business choice, isn't it?

2 A. Yes, it is.

3 Q. Now, you mention on Line -- starting on Line 7 of Page 2
4 that CoreComm has an interconnection agreement with CBT.

5 A. Yes.

6 Q. Have you read that yet?

7 A. No, I have not.

8 Q. Do you think it would be helpful to read that to understand
9 the relationship between CoreComm and CBT?

10 A. Quite frankly, no, because -- and that's the reason why I
11 have not bothered to take the time to gather that document and
12 read it, because focus at this proceeding is to look at costing
13 and pricing of TELRIC rate elements for a future period. It
14 wasn't my intention to go back and determine what we're
15 operating underneath today because obviously at the conclusion
16 in this matter, that's going to change.

17 Q. Do you think the terms of that agreement will change
18 because of this case?

19 A. Once again --

20 MR. PETRILLA: Objection, your Honor. He just said he
21 doesn't -- he's never read the agreement. How can he -- the
22 would be speculating to answer that question.

23 THE EXAMINER: Well, it's kind of a mixed bag. It
24 does somewhat call for a legal conclusion, but on the other
25 hand, the witness, in his prior answer, seemed to indicate that

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1 that was going to be the result; so I'm going to overrule the
2 objection.

3 MR. PETRILLA: All right.

4 THE EXAMINER: You can answer if you can.

5 THE WITNESS: Could I have the question read back,
6 please?

7 (Question read back as requested.)

8 THE WITNESS: With respect to every term in that
9 agreement, once again, not having seen the interconnection
10 agreement, I can't speak knowledgeably to every -- or, any of
11 the terms in it, but I would be extremely surprised if at the
12 conclusion of this matter that every cost and price -- or, every
13 price in the interconnection agreement as it presently exists
14 will be precisely the same to the penny at the conclusion of
15 this matter.

16 As an example, collocation. If that's within the
17 agreement, if a foot of collocation space is 2 bucks per square
18 foot in the interconnection agreement -- once again, I do not
19 know what it is -- I would be very surprised even based upon the
20 cost studies that I have seen submitted from CBT in this
21 instance if it were to remain at that particular price.

22 BY MR. HART:

23 Q. Well, let's not talk about prices. I'm asking you whether
24 you expect the business terms between the parties to be
25 different as a result of this case.

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1 A. It's certainly possible that some of them may change.

2 Q. Now, you made a correction during your direct testimony to
3 your -- a section of your testimony that talked about a price
4 squeeze analysis; do you recall that?

5 A. Yes.

6 Q. Now, your price squeeze analysis makes a comparison between
7 retail revenues and the expected costs of providing service; is
8 that fair?

9 A. That's correct.

10 Q. Now, isn't the retail price of telephone service irrelevant
11 to determining the TELRIC cost?

12 MR. PETRILLA: Your Honor, objection. Is he calling
13 for a legal conclusion or whether or not it is legally
14 irrelevant?

15 MR. HART: He claims to be an economist and an expert
16 in TELRIC. I'd like to see what he thinks TELRIC means.

17 MR. PETRILLA: Your Honor, having seen the debates a
18 week and a half ago about whether retail rates are relevant or
19 not, all of those debates were conducted on a legal level. And
20 I need to know, is he asking a legal -- for the witness to make
21 a legal conclusion about the relevance of retail rates?

22 THE EXAMINER: Well, as I recall, I think all of those
23 objections were overruled, weren't they? I'll overrule the
24 objection.

25 THE WITNESS: Once again, after that, I apologize, can

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1 I have that question read back?

2 (Question read back as requested.)

3 THE WITNESS: When I'm determining the TELRIC cost,
4 say the local loop for instance, the present retail price is not
5 an input into those cost studies to make that determination.
6 However, I think it's exceedingly relevant with respect to a
7 competitive firm attempting to gauge whether or not they will
8 have success in entering the market and to compare the retail
9 revenues of an incumbent local exchange company and use those
10 retail revenues as a surrogate for what the competitive company
11 thinks it will be able to earn is, I think, certainly a very
12 worthwhile calculation to go through.

13 BY MR. HART:

14 Q. It may be worthwhile for one purpose, but it's not
15 worthwhile for actually setting the TELRIC costs, is it?

16 A. While it's not worthwhile for using as an input in setting
17 TELRIC costs, I think it is a good sanity check, for lack of a
18 better term, to see if the sum of the TELRIC costs are
19 substantially higher than the retail rate, especially the retail
20 rate that the incumbent presently charges.

21 Q. And, in fact, what you might have proven is that
22 residential service standing by itself is not a profitable
23 proposition; is that right?

24 A. That's possible, yes.

25 Q. So if CoreComm would choose to limit its revenue stream to

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1 its residential customers, that might just be a bad business
2 plan; isn't that right?

3 A. At the present level of TELRIC costs and prices as proposed
4 by CBT, that could certainly be the case.

5 Q. Let's turn to the topic of cost of capital. At the top of
6 Page 5 you cite some language out of the Local Service
7 Guidelines about how cost of capital is determined; do you see
8 that?

9 A. Yes, I do.

10 Q. And that indicates that the currently authorized rate of
11 return should be the starting point?

12 A. That's correct.

13 Q. Did you start there?

14 A. I think earlier today I testified that I did not perform a
15 calculation to estimate the cost of capital; I merely reviewed
16 what Mr. Hirshleifer did.

17 Q. Did he begin there?

18 A. With respect to whether or not he began there, I do not
19 know; all I can say is what I read in his testimony.

20 Q. If Mr. Hirshleifer's analysis had resulted in a cost of
21 capital of 12 percent, would you go along with that?

22 A. If I found all the inputs to look logical, say for instance
23 if Mr. Hirshleifer, in calculating that 12 percent cost of
24 capital, used a cost of equity of 8 percent, I would think, wait
25 a minute, in today's current market environment is that a

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1 reasonable estimate -- I'm sorry, a -- let me back up, strike
2 that -- cost of debt, say, of 8 percent, and I said, "In today's
3 market conditions is 8 percent reasonable?" I would do much the
4 same as I did in this instance. I would go get a copy of some
5 financial record, in this instance I got copies of Moody's Bond
6 Record to see if the cost of debt as advocated by
7 Mr. Vander Weide in the neighborhood of 7.8 was within the realm
8 of reason.

9 And as of November of '98, the average for, I think it was,
10 Aa bonded indebtedness for telecommunications companies was in
11 the range of 6.8 percent.

12 So if, having looked at Mr. Hirshleifer's hypothetical
13 analysis as you have proposed and it came up to be 12 percent,
14 and I looked at all those components and by virtue of using
15 those components 12 percent looked reasonable, then, yes, I
16 would agree. But I presently agree with his cost of capital
17 that he has presently calculated.

18 Q. Have you verified all the steps he took?

19 A. No, I have not.

20 Q. How do you know if he did it right?

21 A. I am relying upon his expertise. I would be surprised if
22 the firms that use him would continue to employ him if he was of
23 the habit of making miscalculations.

24 Q. What are you adding to the value of his analysis in your
25 testimony?

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1 A. I am, by and large, simply just concurring that I think the
2 methodology that he has used is correct. I support it, once
3 again, via different information, that Moody's Bond Record
4 information that I just discussed, he used a different source;
5 so to that extent I am corroborating that, perhaps, he did use
6 the right -- or, a very reasonable figure in his cost of debt
7 component of his calculation.

8 Q. Would you agree that a smaller firm would have more risk
9 and, therefore, a higher cost of capital than a larger firm?

10 A. Are the two firms serving precisely in the same field,
11 offering the exact same menu of goods and services?

12 Q. You tell me whether that makes a difference. If it does,
13 give it to me both ways.

14 A. The original question, as I recall it, was whether or not
15 the size of the firm being large or small would make a
16 difference in the cost of capital. And I will say that if they
17 are offering the exact same menu of goods and services, size
18 would matter.

19 Q. It would?

20 A. Yes, it would.

21 Q. Okay.

22 A. And if they were offering a different menu of goods and
23 services where a small firm -- let's say a small firm only
24 offers plain old telephone service, whereas the large firm
25 offers telephone service, plus Internet service, plus

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1 long-distance service, plus cellular service, plus directory
2 services and an entire panoply of other services, then they can
3 diversify the risk of one of those components across the entire
4 gamut of all those goods and services that they offer.

5 So that would also certainly be a factor in looking at
6 risk, which ultimately would play a role in estimating the cost
7 of capital.

8 Q. But if both those firms were that panoply of services, you
9 think the smaller firm would have a higher risk?

10 A. Yes. I would say that could potentially have a higher risk
11 because if the smaller firm were to lose 10 percent of its
12 customers, that could have a far greater impact on overall
13 revenue to the company than the large firm.

14 Q. Now, did Mr. Hirshleifer's analysis add any kind of a
15 premium for the size of the firm?

16 A. If it did, I don't recall it.

17 Q. And what types of comparable firms did Mr. Hirshleifer use
18 when he estimated the DCF cost of capital for Cincinnati Bell?

19 A. It's my recollection that he used other regional Bell
20 operating company or holding companies.

21 Q. And what's the relative size between a regional Bell
22 operating company and Cincinnati Bell?

23 A. I'd say the preponderance of them in terms of access lines
24 are substantially bigger. I think, though, in his analysis he
25 also used Southern New England Telephone Company, which while

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1 yet probably bigger than CBT, is more in line with the same
2 size.

3 Q. Isn't that part of SBC now?

4 A. Today it is, but -- Yes.

5 Q. Okay. So did Mr. Hirshleifer make a mistake when he used
6 RBOCs as his proxy group but made no adjustment for the size of
7 Cincinnati Bell?

8 A. I wouldn't say so because I would consider what -- I would
9 consider Cincinnati Bell to be what you traditionally consider a
10 tier one local exchange company, substantially high revenues;
11 and I'm hard pressed to think of many services that any of those
12 regional Bell operating companies offer that Cincinnati Bell
13 doesn't.

14 In fact, Cincinnati Bell offers, I think in many instances,
15 some more progressive services; the ZoomTown, the asynchronous
16 digital subscriber line product, that's a service that not
17 many -- or, few of the RBOCs really offer, especially as CBT has
18 made claims on their web site that they will be offering that to
19 the entire subscribership in the very near future. I'm hard
20 pressed to think that many of the regional Bell operating
21 companies can make that same claim.

22 Q. Is the risk of a firm different depending on the geographic
23 market it serves?

24 A. I hesitate here for just a moment because I'm trying to
25 picture in my mind CBT's geographic market in comparison to

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1 other firms, if you'll bear with me for just a moment.

2 Before I answer a couple questions, when you say
3 "geographic difference", are we talking specifically of
4 population density, or are we talking topography and terrain
5 differences?

6 Q. Well, let me rephrase it because you're apparently not
7 understanding my question.

8 Does a company that serves a single metropolitan market
9 face a different risk than a firm that serves, say, 20
10 metropolitan markets?

11 A. If it does, I'm hard pressed to think how that would be.

12 Q. Well, isn't the single-market firm more vulnerable to
13 competition than the one that serves 20 markets?

14 A. I don't know that I would agree with that because the one
15 that serves 20 markets, and let's use Southwestern Bell as an
16 example, obviously they serve Kansas City and St. Louis, but
17 they also serve Chicago -- or they will upon the completion of a
18 merger with Ameritech -- through their PacTel properties they
19 serve the State of California. And the competitors that may
20 enter in the State of California they may never see in
21 St. Louis, Missouri; the competitors they see in St. Louis,
22 Missouri they may never see in California.

23 So I would say the multi-population-center firm has a
24 greater chance of seeing more competitors, albeit different
25 ones.

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1 Q. But it's less at risk of losing a large share of its
2 market, isn't it?

3 A. I don't know if it's any less at risk than any other firm.

4 Q. Would you agree that one of the purposes for using the
5 TELRIC pricing methodology is to simulate prices that would
6 prevail in a competitive market?

7 A. I would agree that the purpose of the TELRIC pricing
8 methodology is to develop a forward-looking cost, and if that
9 forward-looking cost was similar to what might be found in a
10 competitive market, then the answer could possibly be yes.

11 Q. And, in fact, one of the purposes for TELRIC is to provide
12 economic signals to other firms as to whether or not it's
13 rational for them to enter; is that right?

14 A. That's fair.

15 Q. And if the TELRIC costs are too low, that would, would it
16 not, discourage firms from building their own facilities?

17 A. Yes, those -- if the TELRIC costs were, in fact, too low,
18 firms would generally opt to purchase those unbundled network
19 elements that were priced lower than what they could
20 provision -- self-provision themselves. But there's also a
21 converse to that as well, and if the TELRIC costs are priced too
22 high, that's sending a totally different economic signal that
23 uneconomic duplication or bypass of the network is a viable
24 alternative at that point as well.

25 So that's why the TELRIC methodology, to get exactly to the

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1 proper cost, is extremely important.

2 Q. So what you're kind of doing is figuring out at what price
3 it makes sense for a firm to build their own facilities?

4 A. I think -- I don't know that I agree with that. I think
5 the overall -- or, underlying rationale for the TELRIC
6 methodology simply is to determine what would it cost me on a
7 forward-looking incremental basis to provide the total quantity
8 of a particular element.

9 Q. Okay. And to do that, the long-run aspect of TELRIC makes
10 us assume we're starting from scratch, doesn't it?

11 A. By and large. There are a couple of items that are
12 mandated -- or, at least one the FCC mandates that you have to
13 maintain, but beyond that, yes.

14 Q. So if I am trying to determine what the cost would be for
15 me to do that, first what I have to do is design a network that
16 will serve the area I'm wanting to serve, correct?

17 A. Yes.

18 Q. And then you have to determine what will that network cost?

19 A. Yes.

20 Q. And then you have to determine what it will cost me to
21 raise the capital that I need to finance that, correct?

22 A. Yes. I think the FCC contemplates a forward-looking cost
23 of capital.

24 Q. And if this is to be replicative of the costs that a firm
25 would experience to enter, wouldn't it have to reflect the cost

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1 of capital that that firm would experience if it was going to
2 try to build a network?

3 THE WITNESS: Can you read that back? That was kind
4 of lengthy.

5 (Question read back as requested.)

6 THE WITNESS: I think that's a fair statement, and I
7 would preface that by saying that a firm such as CBT, presently
8 there is -- or, can be calculated a cost of capital.

9 And I don't believe that CBT -- today, if you were to
10 calculate the cost of capital for CBT today -- is no longer in
11 the business of building out or continuing to augment,
12 supplement its network; obviously, today, CBT is constructing
13 new plant.

14 By virtue of what I saw in the CBT web site, it says,
15 hey, if you want ZoomTown, this ADSL product offering, it's not
16 available to everybody, but we're taking steps to build out our
17 plant to make sure we pass and can provide that service to
18 everybody as quickly as possible. Whatever that takes from a
19 technological, engineering standpoint, I'm not certain, but
20 obviously, CBT today is continuing to improve and augment its
21 network.

22 BY MR. HART:

23 Q. Well, but that's not starting from scratch, is it?

24 A. In many instances, it possibly could be with respect to if
25 you had, old lead unshielded cable that was extremely, you know,

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1 loaded with loading coils, et cetera, you had to go out and
2 totally replace that, I'd call that completely starting from
3 scratch.

4 Q. Well, let's stick with cost of capital. You can talk about
5 ZoomTown when maybe that's relevant to a technical issue.

6 But what I want to know is whether the TELRIC theory
7 requires us to determine what the cost of capital would be for a
8 competitive firm to enter the network leasing business.

9 A. Could you rephrase -- or, repeat that?

10 Q. I'll ask that it be read.

11 (Question read back as requested.)

12 THE WITNESS: I can give no better definition of
13 TELRIC theory than what the FCC says, and in Section 51.505 of
14 the rules, Subparagraph (b)(2) -- I'll give you a moment to get
15 there with me.

16 BY MR. HART:

17 Q. Go ahead.

18 A. Okay. It says, "Forward-looking cost of capital.
19 Forward-looking cost of capital shall be used in calculating the
20 total element long-run incremental cost of a network".

21 Q. Let's explore what that means. Doesn't it mean that I have
22 to cost a network, determine how much money I need to raise to
23 build that, determine how long it's going to be in service so I
24 know how long I have to recover the cost of that, and go seek
25 financing to pay for that?

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1 A. I would agree with everything up until the last segment
2 where you said, "and go seek financing to pay for that" because
3 if we're going to determine what it costs to build this
4 forward-looking network, we might go to Fujitsu and ask, "Today,
5 what does the FACTR system for integrated digital loop carrier
6 cost", and we'd know that in the future. And that's an input
7 into these cost studies.

8 But it doesn't seem to me that an input into these cost
9 studies is where the firms such as CBT actually go to the
10 capital markets and says, "You know, I was thinking about
11 spending \$300 million to totally recreate my network from
12 scratch; what would it cost me?"

13 Q. Isn't that a forward-looking cost of capital?

14 A. Well, that could be. I've never seen any analysis where
15 those type forays or inquiries into the market were done.

16 Q. Well, and TELRIC isn't reality, either, is it; it's an
17 economic theory?

18 A. Yes, a hypothetical one.

19 Q. So hypothetically, don't we have to figure out how much it
20 would cost me to raise that money if I was going to do that?

21 A. Again, I'm hard pressed to think why raising that money
22 would be substantially different than what would -- what it cost
23 to -- for CBT to raise money today.

24 I think, as I recall in reviewing Mr. Mette's deposition,
25 that he talked about a new central office being constructed

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1 somewhere in Kentucky. Obviously, money had to be raised to
2 finance the construction of that office and --

3 Q. That wasn't the entire network, was it?

4 A. It was a sizable amount of money, I would think.

5 Q. Now, you told us earlier that the cost of capital should
6 reflect the cost that an entrant would have to go into this
7 business. If you strictly used Cincinnati Bell's cost of money
8 today, aren't you pricing the cost of money for a monopoly?

9 A. I wouldn't entirely agree with that because if you were
10 looking at Cincinnati Bell as a whole, there are competitive
11 services, wireless services, Internet services are certainly
12 competitive, directory services, there are alternatives to
13 directories out there. So I wouldn't necessarily agree that
14 it's a monopoly as a whole.

15 Q. Do you know what competitive circumstances Mr. Hirshleifer
16 considered when he developed his cost of capital?

17 A. As I think back to my reading of his testimony, that's been
18 quite some time, I don't recall him specifically outlining it.
19 That's not to say he didn't; I just can't recall.

20 Q. Do you know if he did any kind of analysis of the
21 competition?

22 A. No, I do not.

23 Q. Are you familiar with the theory of a discounted cash flow?

24 A. I have used it as a finance student and also in the course
25 that I took through the University of Missouri to calculate the

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1 cost of equity.

2 Q. Can you tell us what the general formula is?

3 A. Yes. Cost of equity equals dividends over a certain number
4 of periods, divided by the price, and then you add a growth rate
5 to that.

6 Q. So it would be the dividend yield plus the growth rate?

7 A. Yes.

8 Q. So if a company had a dividend yield, let's say, of 2
9 percent and a growth rate of 13.4 percent, does that mean the
10 discounted cash flow cost of equity is 15.4?

11 A. Can you repeat that for me, please?

12 Q. Sure. Two percent dividend yield plus 13.4 percent growth.
13 What's the discounted cash flow for that?

14 A. What's the discounted cash flow, or what is the cost of
15 equity that would be calculated based upon that?

16 Q. Right.

17 A. Before I accept that hypothetical, I would want to know a
18 couple of things. Number one, how that growth was calculated --
19 that growth factor was calculated.

20 Q. Analysts' projections.

21 A. Ad infinitum, or for a specific period?

22 Q. How long do analysts give growth projections?

23 A. Generally, five years.

24 Q. And then after that, you really don't know what the growth
25 will be, do you?

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1 A. You -- In many instances, it's generally considered the
2 tapered end of growth of the U.S. economy.

3 Q. Who generally considers that?

4 A. Again, that was just from the readings that I had in that
5 course from the University of Missouri.

6 Q. Do you know how the Ohio Commission has traditionally done
7 its DCF analysis?

8 A. In the Local Service Guidelines, they talk about a
9 five-year study, so I would presume it was on a five-year basis.

10 Q. Have you reviewed the Staff Report in this case?

11 A. A long time ago.

12 Q. Do you recall how they did the DCF analysis there?

13 A. No, I do not.

14 Q. Did they taper it down to the economy?

15 A. I don't recall.

16 Q. All right. You wanted to know that. Now, what else do you
17 need to know to answer the question?

18 A. I think that would be sufficient.

19 So in that instance, if your dividend yield was 2 percent
20 and your growth rate was 13.4, you would add the two together;
21 but, conversely, if your growth rate was 7.5, then you add those
22 two together, as well.

23 Q. Okay. Now, are you familiar with the capital asset pricing
24 model?

25 A. Yes.

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- 1 Q. Tell me how that works.
- 2 A. Sure. Let me just....
- 3 Capital asset pricing model --
- 4 Q. Could you tell me what you're looking at to answer this?
- 5 A. Sure. These are just some notes that I had taken when I
- 6 reviewed Mr. Hirshleifer's testimony.
- 7 Q. Okay. Could you answer it without looking at those notes,
- 8 or are you able to?
- 9 A. I could, I just want to make absolutely certain about it.
- 10 Q. Okay. Go ahead.
- 11 A. But the CAPM model essentially takes a risk-free rate and
- 12 then adds to that, considers a beta plus, and then they multiply
- 13 that times what I think is like a market risk premium to come up
- 14 with the cost of equity.
- 15 Q. Okay. Now, in that type of an analysis, which, if any, of
- 16 those inputs are specific to a company?
- 17 A. The beta, the estimate of risk is specific to a company.
- 18 As I recall, betas are -- and I have never calculated beta, but
- 19 as I recall, beta is calculated looking at a regression analysis
- 20 comparing the company to, say, a broad range of companies,
- 21 perhaps like the S&P 500.
- 22 Q. It's a correlation between stock price and the market,
- 23 isn't it?
- 24 A. Yes.
- 25 Q. And the higher the beta, the higher the risk?

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1 A. Correct.

2 Q. And in the capital asset pricing model, isn't the beta the
3 sole measure of risk?

4 A. There's also the market risk premium that you would add on
5 at the end or you would multiply times the beta.

6 Q. That's a fixed number, isn't it?

7 A. Yes, it is.

8 Q. Okay. So the only thing that varies from company to
9 company is beta?

10 A. I agree.

11 Q. And beta, under that theory, is what measures the market
12 risk?

13 A. Correct.

14 Q. Okay. Now, do you agree with the capital asset pricing
15 model, that that's an appropriate model?

16 A. I think that the method that Mr. Hirshleifer has used, and
17 it was certainly the method that was instructed to me by the
18 faculty of the Finance Department of the University of Missouri,
19 is that in calculating the cost of equity such as this, there
20 are -- Let me back up.

21 In calculating the discounted cash flow methodology and
22 calculating a capital asset pricing cost of equity, CAPM cost,
23 and adding the two together is -- or, average, I'm sorry --
24 averaging the two together is a good way to go about doing that.

25 Q. Well, but for you to average those, don't you put some

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1 credence in the cap asset model?

2 A. You put credence in that, you would put credence in the
3 discounted cash flow model.

4 Q. So do you agree, then, that beta is an appropriate risk
5 measure?

6 A. I think if it were deemed to be wholly inappropriate, there
7 wouldn't be a number of firms out there solely in the
8 business -- or, not solely in the business, but in the business
9 of analyzing the relationship of stock price to the market and
10 coming up with those betas.

11 Q. Now, if beta is an appropriate measure of risk, wouldn't it
12 also be an appropriate screening mechanism to select the
13 comparable firms that you would use in the DCF model?

14 A. I don't think so because what you -- Say, for instance, if
15 you had a beta of 1.1, and that's where we're kind of looking in
16 that range for screening, and you did a sort of the betas at the
17 S&P 500 and you were trying to get those in that 1.1 range, you
18 might come up with firms that are engaged in wholly different
19 activities than the provision of telecommunications service.

20 Q. I thought you said earlier that beta was the sole measure
21 of risk in the cap asset model.

22 A. I'm not sure what that has to do with my answer.

23 Q. Well, wouldn't it be a good proxy for the risk of companies
24 for discounted cash flow purposes, as well?

25 A. You've completely lost me there. Using beta for a proxy

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1 for DCF?

2 Q. Well, it's a measure of risk, right?

3 A. Where would you apply that beta than in the discounted cash
4 flow model?

5 Q. Well, in the discounted cash flow model aren't you trying
6 to find firms of comparable risk to see what their cost of
7 capital is and use those to determine the firm that you're
8 looking at?

9 A. You do want to look at surrogates.

10 Q. And wouldn't an appropriate surrogate be then to find
11 companies who have similar betas?

12 A. I would say companies that had similar betas that were also
13 engaged in exactly the same type of service.

14 Q. Okay. So if we were going to look at comparable companies
15 in the same business, you think the best comparables would be
16 those that had similar betas to the company you're looking at?

17 A. I would say there would be other items that I would want to
18 factor in as well, such as general size, the method in which the
19 company is owned and operated.

20 Q. How would size play into that?

21 A. If you had a publicly traded, very small company, let's say
22 for instance that TDS or Century, a telephone holding company,
23 but the companies that they hold are small, rural, local
24 exchange companies that could have an effect.

25 Q. Well, small, rural telephone companies aren't very much at

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1 risk for competition, are they?

2 A. Yes, in many instances they have been.

3 Q. Are they at risk as much as urban companies are?

4 A. Some of them. There's some companies in the State of
5 Wyoming that have lost a great deal of their customers to the
6 neighboring ILEC.

7 Q. To ILECs, not CLECs, though?

8 A. The ILEC operating as a CLEC in the territory.

9 Q. Did Mr. Hirshleifer take into account the beta of the
10 comparable companies when he did his DCF analysis?

11 A. When he did his DCF analysis, I couldn't speak to that.
12 With respect to his CAPM analysis, he did look at betas and he
13 looked at betas from a couple of different sources. One was
14 BARRA, I think, something of that nature. I don't recall the
15 other one.

16 Q. Now, did the number that he actually recommended, was that
17 based on the BARRA betas, or was that based on some other form
18 of beta?

19 A. It was based on some other beta, but he did do a
20 sensitivity analysis in his testimony to see what that was.

21 Q. And the betas he used were historical betas, weren't they?

22 A. I think so, yes.

23 Q. And BARRA betas are forward-looking betas, aren't they?

24 A. That's beyond my knowledge.

25 Q. Did the BARRA -- The result with the BARRA beta come out

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1 higher?

2 A. I think so, yes.

3 Q. Now, you cite in your testimony a couple places where
4 Dr. Vander Weide's analysis has not been accepted. Are you
5 aware that Massachusetts has accepted his analysis?

6 A. No, I'm not. With respect to that portion of my testimony
7 where I listed five other states that have rejected certain
8 portions of Dr. Vander Weide's analysis, I merely inquired of
9 the staff of Swidler, Berlin, Shereff, Friedman what
10 jurisdictions had rejected that, and in fact, it was my
11 understanding from just doing some support work, I never filed
12 testimony for them, but doing some support work for AT&T in
13 Chicago, in talking to some of their folks who indeed did file
14 the testimony, that they thought that Dr. Vander Weide's
15 analysis had not been accepted anywhere.

16 So because of that I never inquired as to if you can do
17 some research and provide me any states where it has been
18 accepted. Be very interested to see that Massachusetts
19 decision.

20 Q. So these citations came from Mr. Petrilla's law firm?

21 A. That's right. They obviously have access to West Law and
22 those types of thing, they have a better capability to perform
23 searching than I do.

24 Q. See, that part is their work product not yours?

25 A. They provided me with that information, yes.

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1 Q. Now, do you understand that Mr. Hirshleifer used what's
2 called a weighted average cost of capital?

3 A. Yes.

4 Q. And that's where you take the cost of debt and you merge it
5 with the cost of equity?

6 A. Yes.

7 Q. And you have to determine a capital structure to do that,
8 right?

9 A. That's correct.

10 Q. Now, would you agree with me that in a forward-looking cost
11 of capital, that the appropriate way to weight debt and equity
12 is according to market values?

13 A. No, I would not. I would --

14 Q. Do you disagree with Mr. Hirshleifer on that, then?

15 MR. PETRILLA: Objection, your Honor, lack of
16 foundation. That question is basically when did you stop
17 beating your wife. If he wants to establish why Mr. Hirshleifer
18 wrote his testimony, let's do that first without asking the
19 question with a premise in it.

20 THE EXAMINER: Well, I would hope that he's somewhat
21 familiar since he's offering a supporting recommendation
22 regarding the testimony. If he can't answer and he needs a
23 reference, then he can ask for it. Overruled.

24 BY MR. HART:

25 Q. Have you read Mr. Hirshleifer's deposition?

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1 A. No, I have not.

2 Q. So you don't know what his position is on whether market or
3 book structure is the appropriate way in a forward-looking
4 environment; is that fair?

5 A. My understanding of market or book was his weighting or
6 averaging of the two.

7 Q. Have you ever asked him which was the appropriate one to
8 use?

9 A. No, I have not.

10 Q. Have you ever talked to him before?

11 A. No, never.

12 Q. Ever met the man?

13 A. Never personally.

14 Q. Can you tell us how the book capital structure is
15 calculated. How do I know what the percentage of debt and
16 equity are?

17 A. First I would determine what my dollar value of my debt is,
18 provide a listing of all the outstanding debt offerings that I
19 have, and then for the equity component, let's hypothetically
20 say that that was \$25 debt, then I would, for the equity
21 component, go to the balance sheet and look at the common equity
22 section of the balance sheet, and if that's expressed on a per
23 share basis, then multiply that times the number of shares to
24 get the book value of the common equity.

25 And let's say that comes out to be \$3 a share and I had 25

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1 shares, so \$75.

2 So at that point then, using those simple numbers, we'd
3 have a debt-to-equity ratio, or a capital structure of 25
4 percent, 75 percent equity.

5 Q. Okay. Now, when you say you'd look at the balance sheet,
6 would you look at the financial reporting of the company to get
7 that?

8 A. You could take their financials and look at that.

9 Q. Okay. And I take it for a company that's publicly traded,
10 you would look at something like an Annual Report?

11 A. Yes.

12 Q. Now, a company like Cincinnati Bell that's in the telephone
13 business, does it keep books differently for regulatory purposes
14 than it does for public financial accounting purposes?

15 A. Yes, it may.

16 Q. Okay. And do you know why they are different?

17 A. Generally because of SEC requirements.

18 Q. What does the SEC require?

19 A. That's the extent of my knowledge. With respect to SEC as
20 opposed to generally accepted accounting principles, I would be
21 hard pressed to give you the differences.

22 Q. Okay. Is there a difference in depreciation treatment
23 between regulatory accounting and public financial accounting?

24 A. Yes, you would use a tax life convention where another
25 might use a straight line or something.

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1 Q. Well, would you use tax life or would you use economic
2 lives?

3 A. Again, I've stated with respect to which changes or
4 methodologies you would use, it's not something I do on a
5 regular basis.

6 Q. Do you know whether Cincinnati Bell uses higher
7 depreciation rates for financial accounting purposes than it
8 does for regulatory purposes?

9 A. No. No, I don't know one way or the other.

10 Q. Well, in the next section of your testimony you make
11 recommendations on depreciation, don't you?

12 A. To use the FCC prescribed lives.

13 Q. Do you know what Cincinnati Bell uses for its own financial
14 reporting purposes?

15 A. For its retail operations?

16 Q. Yeah.

17 A. No, I do not.

18 Q. Well, let me ask you to assume that it uses higher
19 depreciation rates for retail purposes, or for financial
20 accounting purposes. Would that yield a different
21 debt-to-equity ratio than if the books were capital and
22 regulatory basis?

23 A. It could, yes.

24 Q. For example, if there's a greater depreciation under public
25 accounting, that would yield lower equity, wouldn't it?

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1 A. Yes.

2 Q. So if I went to Cincinnati Bell's public balance sheet to
3 determine the debt-to-equity ratio, I'm going to get a higher
4 debt ratio than if I looked at regulatory books; is that right?

5 A. Would you repeat that?

6 MR. HART: Read it.

7 (Question read back as requested.)

8 THE WITNESS: By their public balance sheet, you're
9 referring to the Annual Report? That's possible, yes.

10 BY MR. HART:

11 Q. Okay. Now, in this case you're advocating taking the
12 Annual Report book values as an input into the cost of capital,
13 but when we get to depreciation you're advocating that we use
14 regulatory depreciation; is that right?

15 A. That's partially right.

16 Q. You see an inconsistency there?

17 A. Not really. And again, because the FCC specifically, for
18 costing purposes, prescribes economic lives and they consider
19 those economic lives to be forward looking. Personally, I do
20 not.

21 Q. Why shouldn't we use the FCC's depreciation rates in
22 determining the book capital structure, then?

23 A. Again, that's -- I don't believe I'm the witness that would
24 best give you that answer.

25 Q. I should ask Mr. Hirshleifer?

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1 A. Yes.

2 Q. You understand that using the financial reporting
3 depreciation to determine the book value depresses the amount of
4 equity?

5 A. If using financial depreciation methods on a more
6 expeditious basis depreciates the assets, then the equity would
7 correspondingly be lower.

8 Q. So by doing that we have lowered the average cost of
9 capital, haven't we?

10 A. To some extent, but once again, that's where I see a value
11 in using an amalgam or averaging, if you will, of the market
12 capital structure and book capital structure much the same as
13 Mr. Hirshleifer has done.

14 Q. But if we use regulatory book structure instead of market
15 book structure, you'd get a higher average, wouldn't you?

16 A. Possibly.

17 Q. Now, if one was to do a forward-looking measurement of the
18 cost of capital, what is the calculation of the debt-equity
19 ratio then?

20 A. We're still talking about the book value?

21 Q. No, I want to use forward looking now. Book value is
22 embedded; you understand that?

23 A. I do.

24 Q. Okay. What's the forward-looking measure?

25 A. To determine the capital structure?

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1 Q. Yeah.

2 A. I think it's a combination of both the market value, which
3 is forward looking with respect to where the stock prices are
4 today when calculating the equity component, plus the book
5 value. And I say the book value because a firm such as CBT
6 obviously is in a position to leverage itself to a much greater
7 extent than other types of firms, and to elaborate further,
8 certain firms such as biotech firms, software-type companies,
9 are often very thinly capitalized on the debt side, their
10 present bond transfer of their capital structure is equity. But
11 when you have a firm such as CBT with very regular revenue
12 streams, they obviously can use a larger portion of debt in
13 their capital structure than other types of firms can.

14 So with respect to what is a forward-looking capital
15 structure, I think you have to factor in two items: Number one,
16 how easily can the firm incorporate debt into its operations;
17 and, secondly, take a look and see where the market is today;
18 and that's why I agree with Mr. Hirshleifer's averaging of the
19 two.

20 Q. Well, he averaged book with something else, right?

21 A. With a market capital structure.

22 Q. And I'm trying to ask you to tell me how we calculate the
23 market structure. You haven't really told me that.

24 A. I didn't realize that you had asked me that question.

25 Q. Okay. Can you answer?

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1 A. Sure.

2 Once again, start out like I did with the book side. Let's
3 say our -- gather a listing of all our outstanding debt
4 issuances, and once again, in this instance let's say it's \$25,
5 and the next instance let's say that we have a stock price now
6 instead of \$3, the market price is \$6, but we still have 25
7 shares outstanding. Then that would be -- Actually, I didn't do
8 the math quite right.

9 Let's say that equals 50. I'm just trying to do this so
10 the math is easy. So we have debt issuances of \$50 and we have
11 a market stock price of \$6 and 25 shares outstanding for \$150.
12 Then your capital structure in this instance, once again, would
13 still be 25/75.

14 Q. Are you making any adjustment to the amount of the debt
15 issuance to reflect market conditions?

16 A. Not in that instance, no.

17 Q. Shouldn't you?

18 A. You could; but once again, as I said before, I think
19 Mr. Hirshleifer is the more appropriate individual to make that
20 decision.

21 Q. What if the debt was issued at an interest rate of 8
22 percent and the market is now only paying 6 percent, is that
23 debt worth something different?

24 A. It could be, yes.

25 Q. How would I figure that out?

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1 A. Again, that's not a calculation I'm accustomed to making.

2 Q. I should ask Mr. Hirshleifer?

3 A. Yes.

4 THE WITNESS: Can we take just a one-minute restroom
5 break?

6 THE EXAMINER: Let's go off the record.

7 (Discussion held off the record.)

8 THE EXAMINER: Back on the record.

9 BY MR. HART:

10 Q. Mr. Gose, on Page 16 of your testimony, you refer to
11 Dr. Vander Weide's cost of debt proposal of 6.94 percent. Do
12 you see that?

13 A. Correct.

14 Q. Is that a reasonable figure?

15 A. It's very much in line with the 6.88 percent that I
16 gathered from the Moody's Bond Record of November 1998.

17 Q. Does that mean it's a reasonable figure?

18 A. It means it's in line.

19 Q. It's not unreasonable, then, is it?

20 A. No.

21 Q. Now, would you agree that most companies that pay dividends
22 pay them quarterly?

23 A. Yes.

24 Q. And that in order to model the company's cost of capital,
25 wouldn't you most accurately do that if you assumed the

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1 dividends are paid quarterly?

2 A. Again, my criticism in my testimony of the quarterly
3 discounted cash flow model stem from the fact that wherever I
4 had used it I had always used the annual method.

5 Q. And you mentioned the one homework assignment you had from
6 your course in Missouri. When else have you done this?

7 A. Once again, just in academic pursuits, quite some time ago.

8 Q. Okay. My question to you originally was to most accurately
9 model the way companies pay dividends should the model reflect
10 quarterly dividends as well?

11 A. Personally, I believe that the annual DCF model is an
12 appropriate method; but, once again, I'm not an expert and this
13 is not something I do on a daily basis, coming up with an actual
14 true number for the cost of capital. If I were, I would have
15 calculated a number, and that's something I would defer to
16 Mr. Hirshleifer.

17 Q. Well, your testimony specifically criticizes
18 Dr. Vander Weide's use of the quarterly model, and I guess I'd
19 like to have you tell us what your expertise is to say which is
20 more accurate.

21 A. Once again, I think that my previous answer would be the
22 same, that the annual discounted cash flow model that I've used
23 in the past appears to do an adequate job.

24 Q. Let's assume a company pays a dividend of 25 cents each
25 quarter for a total of a dollar. Does it cost more present

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1 value for that company to pay the dividend quarterly than if it
2 held its money and paid the dollar at the end of the year?

3 A. Well, the dollar at the end of the year, would potentially
4 be less than the three quarterly payments.

5 Q. Because if it waits and pays the dollar at the end of the
6 year it has the use of all that money for the whole year,
7 doesn't it?

8 A. That's correct.

9 Q. And if it pays dividends quarterly, it has the use of that
10 money for shorter periods of time, doesn't it?

11 A. Agreed.

12 Q. And the quarterly model will yield a higher cost of
13 capital, won't it?

14 A. Likely, yes.

15 Q. Now, under a TELRIC theory which says everything is
16 avoidable, wouldn't a company that was going to build and
17 finance a network have to go to the capital markets and raise
18 capital?

19 A. In reality, yes, but as you, I think, correctly pointed out
20 some time ago, that TELRIC really is hypothetical or theoretical
21 in nature.

22 Q. And when a company goes to the market to raise capital, it
23 has flotation costs, doesn't it?

24 A. On initial offerings.

25 Q. You have to pay lawyers and accountants and financial

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1 analysts and investment bankers, there's a whole bunch of people
2 standing in line to be paid?

3 A. Underwriting-type personnel, yes.

4 Q. And to properly calculate a forward-looking long-run cost
5 of capital we need to take those into account, don't we?

6 A. Again, as I've stated in my testimony, I don't believe that
7 flotation costs are appropriately included in the cost of
8 capital.

9 Q. Do you know how the staff report treated that issue?

10 A. Again, it's been a long time since I've reviewed that, so
11 I'm hard pressed to recall. I seem to recall that they thought
12 it might be appropriate to include them.

13 Q. Now, if a stock is issued at, say, \$100 a share but \$5 of
14 those proceeds go out as expenses, hasn't the company only
15 received \$95?

16 A. That's correct.

17 Q. So isn't the cost of receiving that \$95 higher than if I
18 had gotten the whole \$100?

19 A. That presumes two things. That presumes, number one, that
20 stocks may, in fact, trade in a commission-free environment at
21 some point in the future, and that assumes that we will be
22 financing the -- using the initial offering only, whereas that
23 might not, in fact, be true. There may be some equity capital
24 available to do construction, whereas equity capital that
25 presently trades on the market today --

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1 trading today at \$100. There's no such thing that I've
2 discovered, I'd like to know if there is, of a commission-free
3 trading environment, and let's presume that you have to pay 3
4 percent on all your initial commissions you transact. If I want
5 to go and buy a share of CBT, hypothetically trading at \$100,
6 what I'm saying is that I'm willing to pay \$97 for that share of
7 CBT, paying \$3 essentially for my commission.

8 Q. You're actually paying 103, aren't you?

9 A. That's one way to look at it, but you could also look at
10 it --

11 Q. Well, I'm sorry. The person who is selling the stock has
12 to receive the \$100, don't they?

13 A. Correct.

14 Q. And the person buying it has to pay the \$100 plus the \$3,
15 in your example?

16 A. But in my example on a personal basis, what I would be
17 valuing is, okay, I've paid 103, but essentially I bought the
18 stock for 100, but I'm paying \$97 for it and the \$3 is my
19 commission. That's the way I would look at it.

20 Q. Not if the trading price is 100, is it?

21 A. If I want to factor out that commission, that \$3 that I've
22 paid, then I am going to personally value that at \$97.

23 Q. How much do you have invested?

24 A. 103.

25 Q. So the 103 is only worth 97?

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1 A. As it relates to the share of CBT stock, if I go back and I
2 can transact it -- trade it without a fee and I get the same
3 \$100 for it, but I paid \$3 to transact the trade initially, I
4 have a net of \$97.

5 Q. Where does the extra \$3 come from? You pay 103, right?

6 A. That's right.

7 Q. Why is it only worth 97?

8 A. Because when I sell it, if I can sell it without a
9 commission, then I'm saying my net personally is I paid 103 for
10 it, but I only get 100 for it, so I need to factor out that \$3.
11 So from that 100 that I got for it I would factor out the \$3.

12 Q. Do you know of any financial analyst who takes into account
13 brokerage commissions in determining cost of capital?

14 A. Presently, no.

15 Q. Is this something you just came up by yourself -- came up
16 with by yourself?

17 A. Once again, I, in asking the staff of Swidler, Berlin,
18 Shereff and Friedman, asked them if they were aware of any
19 jurisdictions that had not allowed flotation costs to be
20 included.

21 Q. What's that got to do with brokerage commissions?

22 A. Again, I equate the two in my personal analysis.

23 Q. I understand you do. I'm asking you if you know of anybody
24 else who does this for a living who says we need to take into
25 account brokerage commissions when we determine the cost of

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- 1 Q. Well, that would be embedded equity capital, wouldn't it?
- 2 A. Actually, I would say it would be forward looking because
- 3 it would be trading at the market price.
- 4 Q. It's not long run, is it?
- 5 A. I don't know.
- 6 Q. Well, in long run, everything is avoidable, isn't it?
- 7 A. Either avoidable or a future business decision.
- 8 Q. Now, isn't it also true that when we determine the cost of
- 9 capital we need to do that from the company's viewpoint?
- 10 A. You do it from the company's viewpoint, but a number of the
- 11 inputs require market inputs that are largely driven by
- 12 investors, not the company.
- 13 Q. Well, a company doesn't pay brokerage commissions when the
- 14 public trades its stock, does it?
- 15 A. The public pays those brokerage commissions.
- 16 Q. So if we're to look at the cost of capital to the company,
- 17 those brokerage commissions are irrelevant, aren't they?
- 18 A. For looking at the cost of capital for the company, let's
- 19 say we're using the discounted cash flow method, and we're going
- 20 to take the stock price and divide it by the dividends and add
- 21 the growth component, we would be looking, in my estimation, on
- 22 a forward-looking basis of what's the stock trading at today,
- 23 and that -- the price that the stock is trading at today is
- 24 dependent upon what investors in the market are willing to pay.
- 25 Let's say, using your example, that the stock price is

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- 1 capital.
- 2 A. I think I previously answered I'm not presently -- No, I
3 don't know of any.
- 4 Q. Okay. Now, don't different brokers charge different rates?
- 5 A. Yes, they do.
- 6 Q. I can go on the Internet and trade as much stock as I want
7 for \$10, right?
- 8 A. 10, 25, right.
- 9 Q. Or I go to Merrill-Lynch, I might pay a higher commission?
- 10 A. Three percent, something like that.
- 11 Q. How does the stock market take that into account, that
12 different people are paying different commissions?
- 13 A. I think the market takes that into account by what each
14 personal investor is willing to pay, those type of analyses like
15 I just said I would personally go through.
- 16 Q. So the price goes up and down depending on which brokers
17 are buying that day?
- 18 A. That's one of the components.
- 19 Q. Where have you read that theory?
- 20 A. What's that?
- 21 Q. Where have you read that theory, that the price of stock
22 fluctuates depending on which broker is buying?
- 23 A. I don't know where I've read that theory, by if
24 Merrill-Lynch goes out into the market and all of a sudden on
25 behalf of someone is going to acquire -- Say, for instance, I

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1 think on behalf of Berkshire Hathaway recently where they went
2 out and acquired a larger portion of American Express, in that
3 instance the stock price is probably going to fluctuate when the
4 market sees a large trade of that nature being transacted.

5 Q. Is that because of what the commission on that trade cost?

6 A. It's probably more in the line of the magnitude of the
7 transaction.

8 Q. Because the public doesn't really know what commission that
9 trade incurred, do they?

10 A. No, probably not.

11 Q. Now, on Page 18 in your footnote, you make a note that
12 Cincinnati Bell hasn't issued any stock recently.

13 A. That was my understanding.

14 Q. That's irrelevant to TELRIC, too, isn't it?

15 A. I wouldn't really say so because they -- Cincinnati Bell --
16 won't have to issue any stock or may likely not have to up and
17 through the conclusion of this particular proceeding.

18 Q. In TELRIC theory, it won't?

19 A. I think -- What I'm discussing here is in actuality.

20 Q. So sometimes we can look at actuality and other times we
21 have to look at the theory?

22 A. I don't believe I said that.

23 Q. Well, are we going to do cost of capital according to
24 TELRIC theory or are we going to do it according to actuality?

25 A. Again, I would say we're going to look at the cost of

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- 1 capital on a forward-looking basis.
- 2 Q. Well, is that theoretically or actually?
- 3 A. I think it could be both.
- 4 Q. Are both the same number?
- 5 A. Again, not having calculated those numbers, I wouldn't be
- 6 able to say.
- 7 Q. Now, you're familiar with the Telecommunications Act where
- 8 it says that the incumbent is entitled to a reasonable profit?
- 9 A. I don't have my copy of the Act with me. Could you point
- 10 me to what --
- 11 Q. Well, I think it's in Section 252, I believe, in the
- 12 pricing section.
- 13 A. If you could show it to me.
- 14 Q. Maybe I can find it in the rules. Well, let's not waste
- 15 the time looking for it, but are you familiar with that concept,
- 16 that the TELRIC rates may include a reasonable profit?
- 17 A. I believe the TELRIC rates do include a reasonable profit
- 18 through the inclusion of the cost of capital as it flows through
- 19 the annual charge factors.
- 20 Q. Now, is that profit in the cost of debt or is it in the
- 21 cost of equity?
- 22 A. Well, let's hypothetically say that profit is 10 percent.
- 23 That 10 percent is going to be determined based upon a weighted
- 24 average of the cost of debt and the cost of equity.
- 25 Q. Well, who receives the profit, if there is one; do the debt

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1 holders get that or the equity holders?

2 A. The equity holders would. The debt holders, of course,
3 would hope to see the payments on the bond indebtedness issuance
4 they hold from the earning of the company and the remainder of
5 those earnings considered profit would be distributed to the
6 equity holders.

7 Q. In fact, the payments to the bond holders are fixed.

8 A. Correct.

9 Q. So if the company has a bigger profit, it goes to the
10 equity holders, and if it doesn't earn a profit, the loss goes
11 to the equity holders, right?

12 A. That's correct.

13 Q. Would you agree with me then that the reasonable profit is
14 determined at the equity level?

15 A. I think what we just discussed is a correct method in which
16 the earnings of the company flow through, but that reasonable
17 profit, in all likelihood, might not be a reasonable profit at
18 all if it weren't for the debt component of that 10 percent.

19 Q. Let me ask you a hypothetical. Let's assume I have a firm
20 that I own all the shares of that firm but I didn't invest any
21 money, just formed it and put a dollar in as minimum
22 capitalization, and I'm able to find a bank that's willing to
23 loan me money to finance everything, a hundred percent debt
24 financed. How do I determine my reasonable profit?

25 A. You would first factor in the revenues that you earned

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1 while running that enterprise, and then remove all your fixed
2 and variable expenses, one of which would be the debt payment,
3 or the debt service to the bank, and anything remaining when you
4 subtract from the revenues that you had earned would be your
5 profit.

6 Q. Now, when I'm setting my cost of capital in a proceeding
7 such as this, and I have no equity but I am the equity owner,
8 what rate of return should be set to set my cost of capital?

9 A. Again, it would need to be a rate that would recover all
10 your expenses.

11 Q. Okay. So I've got debt?

12 A. Any taxes you have, and your reasonable return on
13 investment.

14 Q. And what is that reasonable return on investment?

15 A. That would be very largely dependent upon the type of
16 enterprise you have and however you -- through that bank loan,
17 what your interest rate might have been.

18 Q. Let's assume I go into a proceeding like this and I have my
19 bank loan that's 8 percent, so my debt component is 8 percent,
20 when I do my weighted average cost of capital, what do I put in
21 as my cost of equity?

22 A. To determine your weighted average cost of capital?

23 Q. Right.

24 A. What I would advocate in this proceeding is, once again,
25 the averaging of the discounted cash flow model and the capital

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1 asset pricing model to determine that cost of equity component
2 and install that.

3 Q. With zero dollars of equity invested in the business, how
4 do I use either one of those models?

5 A. I thought you said in this proceeding here.

6 Q. Well, in a proceeding like this. In a proceeding like
7 this, if I had a firm with that kind of a capital structure, how
8 would I value the equity? If you don't know, just tell me that,
9 we'll go on.

10 A. This is not something I've contemplated.

11 Q. Let's go on to the topic of depreciation.

12 Would you agree with me that the same depreciation rates
13 should be used for retail and wholesale purposes?

14 A. I've previously testified that I don't even know what
15 depreciation rates are used on CBT's retail operations, but for
16 purposes of this proceeding, once again, if we go to 51.505 of
17 the FCC rules, specifically tells you what depreciation rates
18 you should use. Paragraph B, subParagraph B3, it says,
19 "Depreciation rates used in calculating forward-looking economic
20 costs of elements shall be economic depreciation rates".

21 And I think that's what's relevant in this proceeding.

22 Q. My question is whether they ought to be the same at
23 wholesale and retail. Can you answer that question?

24 A. I would think they should be.

25 Q. Okay. In fact, that's what you told me at your deposition,

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1 isn't it?

2 A. Right.

3 Q. Now, does Cincinnati Bell use economic lives for its retail
4 purposes?

5 A. My deposition, I think I told you I didn't know.

6 Q. Well, in your testimony on Page 20, Line 4, you claim to
7 know that it uses the prescribed lives in retail operations. Do
8 you see that?

9 A. Yes, I see that.

10 Q. Now, you don't really know one way or the other, do you?

11 A. Perhaps made a presumption on Line 4 there.

12 Q. Okay. If I were to tell you that, in fact, Cincinnati Bell
13 uses the economic lives it's proposing in this proceeding for
14 its retail cost studies, you wouldn't have any basis to
15 contradict that, would you?

16 A. Not at all.

17 Q. Now, on Page 20 at the top of that page, you say that CBT
18 seeks to use depreciation lives developed by Dr. Larry Vanston.
19 Is that really true?

20 A. That was what I understood from Mr. Coogan's testimony.

21 Q. Have you been following the hearing, reading transcripts?

22 A. Just a couple of them; Mr. Mette's and Mr. Meier.

23 Q. You didn't read Mr. Bolte's testimony?

24 A. No, I have not.

25 Q. So you're not aware that Mr. Bolte actually deviated from

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1 Dr. Vanston's lives?

2 A. No, I'm not.

3 Q. And in many cases the lives he proposed were longer than
4 those in Dr. Vanston's studies?

5 A. I'm not aware of that, but if that's the case, then in many
6 instances that would move them closer to the recommendation that
7 I made in my testimony with respect to using the FCC's
8 prescribed lives.

9 Q. Okay. So again, at the top of Page 20 where were you
10 presumptive in your conclusion that CBT used Dr. Vanston's
11 lives?

12 A. I would think not at the time that the -- I wrote the
13 testimony, because at the time I wrote the testimony all I had
14 was Mr. Coogan's testimony; I wasn't even aware that Mr. Bolte
15 would be a party to the proceeding.

16 Q. Well, have you looked at Cincinnati Bell's depreciation
17 study that's been made an exhibit in this case?

18 A. Yes, I have a copy of that.

19 Q. Did you ever compare the lives that Dr. Vanston recommends?

20 A. In fact, I believe I did do that.

21 Q. Are they identical?

22 A. I don't recall, but I did go through the -- I did go
23 through virtually every account type of that study.

24 Q. Do you have any idea what the FCC based its decision on
25 when it prescribed lives?

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1 A. In my deposition, we, I think, discussed this same issue,
2 and at that time I said that I had had an opportunity to sit in
3 on some depreciation meetings as a member of the Missouri Public
4 Service Commission when one of the chief depreciation personnel
5 from the FCC, Miss Fatina Franklin, F-a-t-i-n-a, gave some
6 presentations.

7 But with respect to these forward-looking lives, I was --
8 obviously wasn't privy to exactly how these were developed.

9 Q. So you really don't know how the FCC developed the lives
10 that it prescribed in 1997, do you?

11 A. No. But the reason why I once again advanced those as
12 being correct was based upon Section 51.505 of the FCC rules
13 which state that you will use forward-looking economic
14 depreciation rates, and if the FCC developed that rule and they
15 developed what they consider to be forward-looking depreciation
16 rates, I would accept those.

17 Q. You're accepting a lot at face value there, aren't you?

18 A. It's a large acceptance, yes.

19 Q. In fact, it did that two years ago, right?

20 A. The -- In the represcription?

21 Q. Yes.

22 A. Yes.

23 Q. So things might even be shorter now?

24 A. They could be shorter or longer.

25 Q. Has the FCC ever lengthened one of Cincinnati Bell's

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1 depreciation lives?

2 A. Not having, you know, a series of prescriptions, I couldn't
3 say.

4 Q. Well, you reviewed Mr. Coogan's testimony that Mr. Bolte
5 adopted, haven't you?

6 A. Yes.

7 Q. And didn't he have a chart in there that showed that?

8 A. You refresh my recollection, yes, but I'm hard pressed to
9 recall the numbers on it.

10 Q. In fact, historically, doesn't Cincinnati Bell have an
11 account on the books called a reserve deficiency amortization?

12 A. Likely they do.

13 Q. And what's the purpose of that?

14 A. As lives may be lengthened or shortened, the excess would
15 be, as I understand it, recorded in that particular account.

16 Q. So you've got to make up lost time for when depreciation
17 lives were longer?

18 A. Sure.

19 Q. Now, on Page 23, you say, "CBT has not offered any
20 empirical evidence to demonstrate its lives are justified". Do
21 you see that?

22 A. Yes.

23 Q. What about the 1997 depreciation study?

24 A. Again, I did review that study, but with respect to a
25 side-by-side formal documentation of that study to

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1 Mr. Vanston's, I didn't perform that type of an analysis.

2 Q. Well, wasn't that a form of empirical evidence to
3 demonstrate the proposed lives were justified?

4 A. To that, I'd have to say I don't know.

5 Q. You didn't even mention that study in your testimony, did
6 you?

7 A. I don't believe I did.

8 Q. And you haven't given us any basis in your testimony to
9 dispute anything that was claimed in that study, have you?

10 A. With respect to why depreciation lives would be different
11 for certain types of plant, I really haven't, but I think
12 certain examples could be cited.

13 Q. But you didn't put anything in the testimony?

14 A. That's correct.

15 Q. Let's go on to the next topic of ACF.

16 I take it here you're relying upon Mr. Behounek's expertise
17 to review the ACF?

18 A. Not only Mr. Behounek, but also Dr. Ankum, as far as he
19 traveled to Cincinnati to sit with the CBT personnel to
20 physically rerun the studies with different inputs.

21 Q. Have you personally done anything to review the annual
22 charge factors?

23 A. I had happened to, but as I understood, there were problems
24 with respect to license agreements of the ECONCOST MODEL with
25 its creator and so that's why it was not until very late in the

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1 proceeding that, in fact, Dr. Ankum was able to go down to
2 Cincinnati to look at that. If that could have been provided to
3 me electronically, I would have certainly been more than willing
4 to take the opportunity to sit down and review that model, but
5 again, not having it available, I couldn't do it. And to make
6 an additional trip to Cincinnati just to do that wasn't deemed
7 cost effective, that's why Dr. Ankum was the only one that went
8 there.

9 Q. Now, did your counsel provide you with a copy of Cincinnati
10 Bell's answer to Staff Data Request 52?

11 A. Yes, I think I have a copy of that.

12 Q. And doesn't that explain in detail the various components
13 of the annual charge factors?

14 A. While it might explain those in detail, finding it valuable
15 to always maintain an air of professional skepticism to want to
16 look at something other than just explanations on paper and see
17 the inner workings and how that works, that would have been very
18 desirable.

19 Q. Well, you understand that the ECONCOST model only provides
20 a portion of the annual charge factor?

21 A. I do now, and I learned that just prior to and after my --
22 just prior to and after the deposition of Dr. Ankum.

23 Q. And if you'd have studied the answer to Data Request 52,
24 wouldn't you have understood that?

25 A. Once again, I don't know, that was a long time ago, and it

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- 1 was such a voluminous document.
- 2 Q. Well, you understand that there is a capital cost portion
- 3 that the ECONCOST model calculates?
- 4 A. That's right.
- 5 Q. That's based on cost of money, depreciation and taxes?
- 6 A. Yes.
- 7 Q. And in that data request response was a description of
- 8 exactly what the inputs of ECONCOST are, wasn't there?
- 9 A. Once again, I'll accept subject to check that there was.
- 10 It's been a very long time since I've reviewed that document.
- 11 Q. And there's another component to the ACF totally separate
- 12 from ECONCOST for maintenance expense, right?
- 13 A. That's -- I now understand that, yes.
- 14 Q. And that's what Mr. Behounek was looking at, isn't it?
- 15 A. That's correct.
- 16 Q. He wasn't looking at ECONCOST, he was looking at
- 17 maintenance expense?
- 18 A. Correct.
- 19 Q. And in addition to ECONCOST and maintenance expense, do you
- 20 understand there's a third component for direct administrative
- 21 expense?
- 22 A. Yes.
- 23 Q. And you haven't even commented on that part, have you?
- 24 A. No, I have not.
- 25 Q. And there's a fourth part beyond that?

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- 1 A. For OSS.
- 2 Q. Yes. Now, when you went back and recalculated ACFs, you
3 totally ignored direct administration and OSS, didn't you?
- 4 A. Correct.
- 5 Q. So the ACFs that you put into your revised loop model only
6 included revised ECONCOST runs and Mr. Behounek's maintenance
7 expense factors?
- 8 A. That's correct. As I stated in the deposition, I thought
9 the OSS cost would more cleanly and logically be recovered
10 elsewhere.
- 11 Q. Did you show us where they should be recovered?
- 12 A. I think I -- in the deposition I stated in just a separate
13 element.
- 14 Q. Did you show us where we should recover direct
15 administrative expense?
- 16 A. No, I didn't. The reason why I did not include that is I
17 presumed that that could be recovered in the shared and common
18 cost factors.
- 19 Q. Well, you didn't even know about it at the time you did
20 your runs, did you?
- 21 A. Not at the time I did my runs, no, but that's why I did not
22 include it when I did the revised.
- 23 Q. Well, it needs to be accounted for, doesn't it?
- 24 A. Direct administrative?
- 25 Q. Yes.

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1 A. Again, I wouldn't deny that it needs to be accounted for,
2 but it's more appropriate accounted for in the shared and common
3 factor that would be --

4 Q. Well, is anyone in this case recommending that direct
5 administrative expenses be moved from annual charge factors into
6 common costs?

7 A. Not to my knowledge.

8 Q. In fact, isn't the common costs are set by stipulation in
9 this case?

10 A. At 13 percent.

11 Q. And that didn't include any direct administrative expense,
12 did it?

13 A. With respect to the -- what the initial 20 percent
14 included, or that 13 percent included, I've never seen any
15 analyses to show what that does include.

16 Q. Okay. Now, do you know what Mr. Behounek did?

17 A. With respect to his regression analysis to look at over
18 time, the maintenance expenses and trend those into what he
19 considered to be a forward-looking maintenance expense.

20 Q. Did he do it correctly?

21 A. Again, that's not something that I, with respect to
22 maintenance expenses, calculate on a daily basis, so I accepted
23 Mr. Behounek's analyses. And the reason why I accepted it is
24 because Mr. Behounek is very well respected with respect to
25 looking at common costs and annual charge factors across a

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1 number of states and that, in fact, he's even in orders in
2 TELRIC proceedings received praise for -- he's been singled out
3 for the work he's gone in those areas.

4 Q. Did you review any of his work just as a check?

5 A. I followed the math across the columns, but with respect to
6 the regression analysis, that would have taken a substantial
7 amount of time, and as I mentioned in the deposition, you asked
8 me how much time I had devoted to this case, and as I stated to
9 you then, my involvement has been very limited with respect to
10 as long as this case has transpired, I, perhaps more than anyone
11 else, been involved in it the shortest period of time and have
12 not had an extremely large amount of resources to spend upon
13 this.

14 Q. So you're adopting Mr. Behounek's work without verifying
15 whether it's accurate yourself?

16 A. That's correct.

17 Q. Do you know if he used the appropriate data to do his
18 regression analysis?

19 A. I would presume that he did, but I couldn't speak to say
20 "yes" or "no".

21 Q. Do you agree with his averaging together of the trends on
22 the various accounts that he trended?

23 A. Once again, I just accept that. That's something that I'm
24 not familiar with.

25 Q. Would you recommend straight averaging accounts that have

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1 varying amounts of investment or would you weight those by the
2 amount of investment in each account?

3 A. I don't know.

4 Q. You don't know one way or the other?

5 A. How would I do it?

6 Q. Right.

7 A. No, because I've never performed that type of analysis.

8 Q. Should the data that's used in the regression analysis be
9 stated on the same terms?

10 A. I think in the deposition I said that you perhaps want to
11 state in constant, like 1998 dollars, or something of that
12 nature.

13 Q. What about making sure that the same nature of expenses are
14 included from year to year?

15 A. That would appear to be reasonable. Once again, though,
16 obviously, Mr. Behounek had a lot of time invested in this.
17 That wasn't a luxury I had to be able to do that.

18 Q. So you don't know whether he normalized his data on the
19 same terms or not?

20 A. Correct.

21 Q. Now, on Page 24 of your testimony you cite to the FCC's
22 productivity factor. Do you see that?

23 A. Yes.

24 Q. Has the FCC ever recommended that productivity factors be
25 used in TELRIC proceedings?

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1 A. Not specifically, to my knowledge. As I peruse the FCC
2 rules, I don't see where they say precisely, especially this
3 particular 6.5 productivity factor, but the price cap as it
4 relates to interstate access charges, if you will, however those
5 interstate access, how do you provide that, do you provide it
6 via the loop to the interexchange carrier? I think the answer
7 is yes.

8 So if the FCC states that a 6.5 percent productivity factor
9 is appropriate in that instance, I think it would also be
10 appropriate in a forward-looking economic model.

11 Q. Didn't the FCC reject price cap concepts in TELRIC?

12 A. Once again, if they did, I'm not familiar with where that
13 is in the rules.

14 Q. Okay. So you don't know whether your recommendation is
15 consistent with the FCC order or not?

16 A. I presume it to be, but I can't say for certain.

17 Q. Now, do you know if the FCC has ever determined that
18 Cincinnati Bell has had a 6-1/2 percent productivity gain?

19 A. To this point, I don't think so. In fact, I think I
20 attached as an exhibit to my testimony some correspondence
21 between Cincinnati Bell and the FCC with respect to how that was
22 eventually to be played out.

23 Q. Well, it's not actually correspondence, it's a motion for
24 reconsideration, wasn't it?

25 A. I think that's correct, yes.

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1 Q. And that's something that your counsel gave to you to
2 include in your testimony?

3 A. They did, yes.

4 Q. Do you understand why it's there?

5 A. It was of a legal nature that they just asked me to
6 include.

7 Q. So you don't know what point it's trying to make?

8 A. Other than CBT has an objection to the 6-1/2 percent
9 productivity factor.

10 Q. Do you know if any CBT data was considered by the FCC when
11 it established a productivity factor for access price caps?

12 A. No, I was obviously not involved in that.

13 Q. Now, when Mr. Behounek did his regression analysis, was
14 that a form of productivity analysis?

15 A. I would say it could be because over time he was looking to
16 see if maintenance expenses were static or whether they were
17 going up or down.

18 Q. Now, you wouldn't apply both Mr. Behounek's recommendations
19 and a productivity factor, would you?

20 A. If at some point in the future it was deemed that the 6-1/2
21 productivity factor was applicable to CBT and they were able to
22 apply that, those maintenance expenses that would be trended
23 into the future might even be, to some extent, smaller, so I
24 think you could.

25 Q. You would add them together?

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1 A. No, you would probably take the effect of the 6-1/2 percent
2 as it applies to the maintenance expenses on a going-forward
3 basis.

4 Q. Now, that's if the FCC some day says it applies?

5 A. That would be my understanding.

6 Q. Which it hasn't done yet, has it?

7 A. I don't believe so.

8 Q. Okay. Now, if we were to assume that Mr. Behounek's
9 analysis was correct, wouldn't that be a better measure of
10 Cincinnati Bell's actual productivity gain?

11 A. It could be, yes.

12 Q. More accurate be using a standard based on the entire
13 industry, wouldn't it?

14 A. I think that's fair, but if that standard based upon the
15 entire industry was deemed applicable to a firm and was applied
16 then, what Mr. Behounek did, if he was to do it several years
17 into the future and look back, those numbers could change to
18 some extent.

19 Q. Okay. Now, I think the last data Mr. Behounek used was
20 1995; is that right?

21 A. I'm trying to picture in my mind his chart. I think that's
22 correct.

23 Q. You would recommend, wouldn't you, that that chart be
24 updated with more current data?

25 A. I think -- Yes, and I think I recommended that in the

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1 deposition as well.

2 Q. And hasn't Mr. Mette testified that that is what he
3 proposed to do when the compliance runs are done for these cost
4 studies?

5 A. I believe.

6 Q. And have you seen in Mr. Mette's testimony where he
7 actually showed such a calculation?

8 A. I may have. Right now, I don't recall it.

9 Q. Have you ever studied his calculation?

10 A. Probably not. I've probably not tried to recreate it.

11 Q. Can you tell me whether his approach is correct or not?

12 A. Once again, I said -- I testified that I can't recall it.

13 Q. So you don't know whether Mr. Behounek or Mr. Mette are
14 more accurate, do you?

15 A. Once again, using Mr. Behounek's information, feeling very
16 comfortable with the accolades that he's received from other
17 state commissions with respect to this type of work, I felt very
18 comfortable using his numbers.

19 Q. And you don't have a clue as to what Mr. Mette did?

20 A. I don't recall it.

21 Q. When the trendings are redone, should the 1995 data remain
22 in the database?

23 A. In my deposition I stated that there could be certain
24 anomalies in one year or another that could in one way or the
25 other impact that trending, and so as I recall, I believe, and I

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1 would continue to recommend, that perhaps ten years of data
2 would be a viable alternative. So if we were to rerun those at
3 the end of this year, 1990 through 1999 information, if that's
4 what was available and deemed appropriate, then you would leave
5 the '95 in.

6 Q. Okay. I'm curious, on Page 25, Lines 9 and 10, you seem to
7 recommend eliminating 1995 data. I'd like you to clarify what
8 you mean by that.

9 A. I believe what I meant by that was if that was all we had
10 to go on, then that should be eliminated and just going --
11 information on a going-forward basis, but if we are going to use
12 a regression analysis as Mr. Behounek has done, then additional
13 information, I believe, strengthens the result that you would
14 receive from that regression analysis.

15 Q. So we should leave '95 in and add even more years to that
16 database, right?

17 A. If we can get currently available information.

18 Q. Okay. Now, in the next question and answer you state here
19 that "CBT uses a single maintenance ACF for all elements".
20 Could you tell me what the basis is for that statement?

21 A. Again, this was produced prior to my knowledge that the
22 maintenance ACF was not in the ECONCOST model, so that was
23 perhaps erroneously based upon my assumption that there was one
24 maintenance factor in the ECONCOST model.

25 Q. Well, there's not even a -- the ECONCOST factor isn't even

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1 the same for each element, is it?

2 A. No, it's not; but once again, I mistakenly understood that
3 that was all taken care of in the ECONCOST model, which I now
4 know to be incorrect.

5 Q. Well, the ECONCOST model has a different capital factor for
6 different unbundled elements. What was the basis for your
7 statement that there was a single maintenance ACF?

8 A. Once again, just in discussions I had had respecting what
9 we presumed to be in the ECONCOST model.

10 Q. Did you ever talk to Mr. Behounek about his analysis?

11 A. No, I have not.

12 Q. Would you agree now that you have had an opportunity to
13 review this further, that Cincinnati Bell actually does have
14 individual maintenance factors for different plant accounts?

15 A. It would appear that way, yes.

16 Q. And those aren't calculated by ECONCOST at all, right?

17 A. That's what I now understand.

18 Q. Okay. Now, on Page 26 you recommend that OSS costs should
19 be recovered in a competitively neutral manner. Is there
20 anything in the FCC order that says OSS costs should be
21 recovered in a competitively neutral manner?

22 MR. PETRILLA: Objection. It sounds like it's calling
23 for a legal conclusion.

24 THE EXAMINER: Overruled. If you know.

25 THE WITNESS: I think I know where the paragraph is.

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1 Paragraph 525 of the FCC Local Competition Order states that,
2 "In all cases, however, we conclude that in order to fully
3 comply with Section 251(c)(3), an incumbent LEC must provide
4 upon request nondiscriminatory access to operation support
5 systems functions for preordering, ordering, provisioning,
6 maintenance, repair and billing of unbundled network elements
7 under Section 251(c)(3) and resold services under 251(c)(4)".

8 BY MR. HART:

9 Q. Were you finished?

10 A. Yes. I thought there was something in that paragraph with
11 respect to the competitive neutrality, but I don't find it
12 there.

13 Q. There's not even anything about cost recovery, is there?

14 A. Not directly, no.

15 Q. Okay. Anything else that you're aware of where either the
16 FCC or the Ohio Commission has stated that OSS costs should be
17 recovered in a competitively neutral manner?

18 A. That's my personal opinion.

19 Q. Okay. And am I also correct that your personal opinion on
20 what a competitive neutral manner is, is that everybody bear
21 their own costs?

22 A. Correct.

23 Q. Even if the incumbent carrier has enormous costs compared
24 to the new entrant carrier?

25 A. Yes. And, once again, the section that I just read from,

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1 Paragraph 525 clearly states incumbent LECs that currently do
2 not comply with this requirement must do so as expeditiously as
3 possible, but in any event no later than January 1, 1997.

4 What that says to me is that whether CBT had one user of a
5 OSS, or 10, or zero, they still had to provide that service.

6 Q. Well, it doesn't tell us how they recover the cost, does
7 it?

8 A. No, it does not.

9 Q. What I'm asking you is if CBT has to spend millions of
10 dollars to comply with this requirement, and the new entrant
11 could get by with a few thousand dollars, is it competitively
12 neutral that CBT absorb all of those costs itself and that the
13 competitors pay none of that?

14 A. In the deposition we went over an example where CBT has a
15 million access lines and the cost to develop that OSS system was
16 a million dollars and the competitor in this case, CoreComm,
17 presumed it could through marketing activities gain 5 percent or
18 about 15,000 access lines, and their cost to develop an
19 interface into CBT's system was \$15,000, then that would be a
20 dollar per line for CBT or a dollar per line for the competitive
21 local exchange company, so that in my mind would be
22 competitively neutral.

23 You went further in the deposition then to state, well,
24 what if CBT's costs were \$40 million as opposed to \$1 million?
25 And in that instance, then CBT would be forced to recover a

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1 little bit more, but what we didn't cover is what if the
2 competitive local exchange company's costs, say, are a hundred
3 thousand dollars and they only have 15,000. If they want to get
4 in the business and they have agreed to recover -- or, they
5 agree to cover those costs for development of OSS and interface
6 to CBT, then they agree to cover their costs.

7 My reading of Paragraph 525 of the Local Competition Order
8 states that -- and that's not a legal opinion, it's just my
9 personal reading of that, that CBT had to provide that OSS
10 whether or not anybody came to use it. So if nobody did come to
11 the party to use it, then would you still have to recover those
12 costs.

13 Q. Isn't 5 percent of a million, 50,000?

14 A. Yeah, that would be correct. But I think I am correct in
15 the deposition, we did use the example of 50,000 access lines.

16 Q. Doesn't the FCC order say that costs should be recovered in
17 the manner in which they are incurred?

18 A. Could you point me to where it says that?

19 Q. I'm just asking you if that's a general understanding of
20 one of the principles the FCC has set forth?

21 A. I'd have to see that in the order to be able to say.

22 Q. Well, does TELRIC follow the principle that costs should be
23 recovered from those who cause them?

24 A. Under the general section of the description of
25 forward-looking economic costs in the FCC rules with respect to

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1 cost causer.

2 Q. Where are you?

3 A. 51.505.

4 Q. Where in particular?

5 A. I was going to say I searched for it, but I don't find any
6 notation of the cost causer.

7 Q. Okay. What about 507(a)?

8 A. Yes, that states, "Element rates shall be structured
9 consistently with the manner in which the costs of providing
10 that elements are incurred".

11 Q. What causes the costs of OSS systems?

12 A. I would say the FCC order caused the costs of the OSS
13 systems because it mandated that it be developed.

14 Q. And it mandated it be developed so that competitors could
15 gain access to Cincinnati Bell's systems? .

16 A. For interconnection.

17 Q. And so the competitive LECs have received a benefit by
18 virtue of that FCC order, correct?

19 A. Yes; but, once again, I would stress that according to my
20 reading of that, by January 1 of 1997 CBT was to have provided
21 that whether or not any competitive new entrant came.

22 Q. It doesn't say that when new competitive entrants come we
23 can't recover the cost from them, does it?

24 A. I don't believe it says that.

25 Q. So are you proposing any kind of a rate element that would

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1 allow Cincinnati Bell to recover any part of its OSS costs?

2 A. Well, I haven't specifically proposed a rate element with
3 respect to the annual charge factor discussion that we just had.
4 My exclusion of the OSS costs in the annual charge factors, I
5 believe in my deposition I stated that an element that might be
6 applied -- I believe in deposition I said on perhaps a per query
7 basis, could be appropriate. But I haven't developed a crafty
8 name for that or developed a method on how you would cost that.

9 Q. Well, if the OSS costs are built into the annual charge
10 factors, doesn't that spread the cost of making unbundled
11 elements available over the elements?

12 A. It would do that, but if it spread that across the elements
13 equally, and I -- Say, for instance, I'm a new entrant carrier
14 and all I want to buy is a loop, but you have another new
15 entrant carrier who wants to buy a loop and a switch port and a
16 lot of other, you know, additional collocation rate elements
17 such as additional power lead, core drills, those type of
18 things, then that particular user might be covering, in fact,
19 even more than a proportionate share. So that's why I think
20 that it's more clean and simplified if it happens external to
21 the annual charge factors.

22 Q. So every time somebody uses the preorder gateway to look at
23 something, they should be charged?

24 A. If you are making a query into that system, that could be a
25 possibility.

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1 Q. And every time somebody places an order they should be
2 charged for OSS?

3 A. That's a possibility that such a rate element could
4 contemplate.

5 Q. And every time a repair order is put in there should be a
6 charge for that to use the OSS?

7 A. Once again, with respect to the frequency and the
8 application of the element that we're talking about, I haven't
9 given a great deal of thought as to how that would be structured
10 at all.

11 MR. HART: Your Honor, this is probably a good lunch
12 break time.

13 THE EXAMINER: All right. Sounds good.

14 (Discussion held off the record.)

15 (Luncheon recess taken.)

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P R O C E E D I N G S

Thursday, March 18, 1999

Afternoon Session

THE EXAMINER: Let's go back on the record.

MR. HART: Thank you, your Honor.

CROSS-EXAMINATION (continued)

BY MR. HART:

Q. Mr. Goes, I want to clarify a couple of things from this morning.

I may have misheard you, but I thought you said when you reran the loop model for Band 1, you used 80 percent business and 20 percent residence; is that right?

A. Actually, I think the number was 79-point-something. That's right. If you give me a moment, I'll get you the exact number. It's in my supplemental. 79.63 for business and 20.37 for residence.

Q. Okay. Now, that's the loop mix in West 7th Street, isn't it?

A. That was what was provided in those loop samples at the end of the study that I used.

Q. Do you have that page handy?

A. No, I don't. It's back in Colorado.

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1 Q. Okay. Isn't the loop makeup in Band 1 more like 30 percent
2 business and 70 percent residence?

3 A. There was, in response to a data request, a --

4 THE EXAMINER: I thought that's what he said, for
5 Band 1 he had the -- I thought that's what he said, it was
6 almost reversed between -- and then Band 2 was switched to the
7 80 business and 20 residence. I'm almost certain that's what he
8 said. You have it written down differently?

9 MR. HART: Well, he's referring to -- he now has
10 Band 1 at 79 percent business.

11 THE EXAMINER: Is that what you're showing?

12 THE WITNESS: Yes.

13 THE EXAMINER: Okay. Because I thought this
14 morning -- Okay.

15 MR. HART: That's why I misheard, as well.

16 BY MR. HART:

17 Q. So what did you use for Band 2?

18 A. Twenty-two percent business and 78 percent residence.

19 Q. Okay. Now, is that Cincinnati Bell's Band 1 and Band 2, or
20 is that MCI's Band 1 and Band 2?

21 A. That was using the CB- -- X in the CBT column in the model.

22 Q. Okay. But, I mean, those mixes, are those the actual loop
23 mixes in those bands, as far as you know?

24 A. Those were the actual loop mixes in those bands as pulled
25 from the loop samples.

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1 Q. Okay. And do you have that sample with you anywhere?

2 A. No, I don't.

3 Q. Maybe I'll find that and show it to you later.

4 A. I have it in Colorado.

5 Q. I've got them here, I just don't have them out right at
6 this minute.

7 The other thing I wanted to ask you about was we talked
8 about there being four components to the annual charge factor;
9 the ECONCOST, the maintenance, the direct admin. and what you
10 called the OSS?

11 A. Yes.

12 Q. Isn't that fourth category actually broader than OSS?

13 A. If it is, I'm unaware of it. I thought it was
14 predominantly just the costs associated with operator systems.

15 Q. Have you done anything to analyze the data that's contained
16 in that fourth component?

17 A. No, I have not.

18 Q. Is it your recommendation that all of the fourth component
19 be eliminated?

20 A. From the annual charge factors, and looked at elsewhere.

21 Q. How can you say that if you never looked at the data?

22 A. Because I can say that. As I stated earlier, I think that
23 would be a cleaner and more simplified application.

24 Q. Well, aren't you assuming that all the costs that are in
25 that category are related to access to OSS when you say that?

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- 1 A. Yes, I am.
- 2 Q. So if they're not related to OSS, should they be excluded
3 or not?
- 4 A. I would continue to argue that the OSS costs should be
5 excluded, and if there is anything else left in those costs,
6 whatever that may be, they may be appropriately included. I
7 don't know without seeing them.
- 8 Q. Okay. And you didn't leave any of those in when you ran
9 the model?
- 10 A. No, that's correct.
- 11 Q. On Page 28, the question at Line 11 and your answer on
12 Lines 12 through 16, you talk about the concept of long run; do
13 you see that?
- 14 A. Correct.
- 15 Q. Does long run include the cost of capital the way you're
16 defining it there?
- 17 A. Can you point me to where I reference the cost of capital
18 there?
- 19 Q. Well, you say in Line 13, "all costs" and you emphasize the
20 word "all".
- 21 Are there any costs that you exclude from the word "all"?
- 22 A. No. I believe that to be -- to incorporate everything.
- 23 Q. Which would include the cost of capital?
- 24 A. Yes.
- 25 Q. If we could look at Page 29. You recommend that pole and

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1 conduit investment for Kentucky and Indiana be excluded,
2 correct?

3 A. That's correct.

4 Q. Was that based on Mr. Starkey's review of the pole and
5 conduit account?

6 A. He and I discussed how the pole and conduit factors were
7 applied to the investment and he had expressed concern that it
8 wasn't Ohio-specific data. And so he told me that he would take
9 it upon himself to determine what those pole and conduit factors
10 would be without Indiana and Kentucky information.

11 He subsequently performed that analysis and gave me the
12 numbers, and they weren't substantially different, they were --
13 the changes essentially were out at the third decimal place.
14 But in my run of the model that I discussed the output today,
15 those new figures were used.

16 Q. Okay. And you used his work, you didn't do it yourself?

17 A. That's correct.

18 Q. Now, on the next page you begin a discussion of digital
19 loop carrier; do you see that?

20 A. Yes.

21 Q. And I take it you're advocating that unbundled loops should
22 be provided on an integrated digital loop carrier?

23 A. That's correct.

24 Q. Now, do you recognize that the integrated digital loop
25 carrier equipment that Cincinnati Bell proposes to use does not

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1 present a DS0 interface at the switch?

2 A. That's my understanding.

3 Q. Would you agree, then, that for a DS0 interface to be
4 provided in the central office, something needs to be done in
5 addition to the digital loop carrier system?

6 A. Yes.

7 Q. And that could be through demultiplexing?

8 A. Through demultiplexing or there is another alternative,
9 what is referred to as side-door grooming or hairpinning.

10 Q. And hairpinning sends the T1 into the switch and then uses
11 the switch to pull out a DS0?

12 A. DS0. That's correct.

13 Q. And that uses switch resources, doesn't it?

14 A. Yes, it would.

15 Q. Now, when you reran the loop cost model, did you add
16 anything into the cost of the loop to reflect the switch
17 resources that would be used to groom out DS0s?

18 A. No. And in the deposition we discussed what investments
19 were used if you selected either the integrated or digital loop
20 carrier assumption in the model. And I knew that it occurred in
21 there, but I wasn't able to determine where in the investment
22 tables there are different amounts with respect to what is used
23 on the universal digital loop carrier side that includes the
24 central office terminal.

25 And then there are amounts that include what it would be if

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1 you used the digital loop carrier. And if you do that, it
2 removes those costs associated with the central office terminal,
3 but it includes or keeps in the costs associated with a -- the
4 multiplexer, the FLM 150, if you will.

5 Q. Let's try to be a little clearer so we know we're talking
6 about the same thing.

7 I have a drawing we were working with yesterday I want to
8 leave up here, and I want to add a little bit to it.

9 You recognize the lower half of this drawing to be kind of
10 a graphical depiction of a digital loop carrier system?

11 A. Yes.

12 Q. And when you said the remote terminal doesn't change
13 between universal and integrated, you're referring to what's
14 labelled as the DLC RT here (indicating)?

15 A. That's correct.

16 Q. Okay. And in the central office on the integrated system,
17 there's something called an FLM 150?

18 A. That's correct.

19 Q. And the way Cincinnati Bell would use this, that would feed
20 DS1 signals into its switch; is that right?

21 A. If --

22 MR. PETRILLA: Your Honor, I would like to object just
23 from the point of view there are other things on that diagram
24 that he's gesturing at. Unless he takes the witness through
25 them to establish what they are, I don't think the witness can

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1 just take a piece of a diagram and say, "Oh, yes, I agree with
2 that". He's got to lay a foundation for this line of
3 questioning or draw the diagram that he wants the witness to
4 look at and talk about.

5 THE EXAMINER: If the witness disagrees with the
6 diagram, he can so indicate. I mean, it's, I think, a pretty
7 basic outline of the system. I would assume that he can make
8 any corrections as he feels it necessary. So the objection is
9 overruled.

10 BY MR. HART:

11 Q. Do you remember the question?

12 A. No. Could we have it read back, please?

13 Q. Well, I can restate it.

14 A. Sure.

15 Q. The way Cincinnati Bell uses integrated digital loop
16 carrier in its retail operations, would you agree that the FLM
17 feeds a DS1 signal directly into the switch?

18 A. I'll answer the question, but first let me say that
19 requires me to presume that CBT does use integrated digital loop
20 carrier in their retail operations, and I don't know if they do
21 or they do not.

22 Q. Okay.

23 A. But accepting that as fact, subject to check, then it's
24 correct that from the FLM 150 you would go directly to the
25 switch.

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- 1 Q. Okay. And that's your understanding of the typical way an
2 integrated digital loop carrier system is used, isn't it?
- 3 A. Yes, and actually -- Yes, that's correct.
- 4 Q. Okay. Now, you mentioned hairpinning. Let me try to clean
5 this up a little bit so there's room to write.
- 6 This is my switch (indicating). When you say
7 "hairpinning", that means this DS1 signal goes into the switch
8 and something happens in there and at another place out comes a
9 DS0; is that right?
- 10 A. Yes, which would then be taken over to the collocator's
11 presence.
- 12 Q. Okay. And let's say the collocator's over here (drawing).
- 13 A. Okay.
- 14 Q. Now, what you didn't put into your revised cost study was
15 whatever is going on inside the switch to make that happen; is
16 that right?
- 17 A. Yes. When you choose to use the integrated digital loop
18 carrier option, it does leave in the cost for the FLM 150.
- 19 Q. Oh, it does?
- 20 A. Yes, for the FLM 150 you use IDLC.
- 21 Q. Where is that in your -- in your cost study?
- 22 A. It's in the logic in the model under the DLC tab.
- 23 Q. Could you show me a page that that's on?
- 24 A. I can show you a page, but with respect to the underlying
25 logic, that's the -- it's like a logical condition statement; if

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1 X is chosen in that instance, then this amount is used.

2 Q. Why don't you go to the electronics investment page for the
3 digital loop carrier system.

4 A. Sure.

5 Yes, it's right here (indicating).

6 Q. Okay. And there's a chart there at the upper right-hand
7 side that shows the different investments for integrated versus
8 universal?

9 A. Correct.

10 Q. And on the integrated line, does it have any investment for
11 electronics in the central office at all?

12 A. Yes. It would be on this line right here (indicating),
13 fiber and multiplexing equipment.

14 Q. Central office multiplexing?

15 A. Yes, which is -- Essentially, the FLM 150 is a multiplexer.

16 Q. Okay. When you pull that down into the actual chart, where
17 does that number show up?

18 First, I guess we better establish whether the page you're
19 looking at is the one that prices the integrated or the
20 universal system.

21 A. Right. This should be pricing the integrated system.

22 Q. Okay. What does the line at the top that's labelled
23 "Integrated DLC Equipment Investment, Central Office
24 Multiplexing" represent?

25 A. It was my understanding that that was also a portion of the

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- 1 FLM 150, as well.
- 2 Q. And that shows zeros there, doesn't it?
- 3 A. Yes.
- 4 Q. So you haven't included all of the FLM 150 in the
- 5 integrated mode, have you?
- 6 A. That's possible. I will have to go back and go through the
- 7 formula to make absolutely certain.
- 8 Q. Okay. Now, the universal --
- 9 A. I'll make a note of that.
- 10 Q. -- system, let's just do a different fiber line coming in
- 11 here. Am I correct that that goes into something called a
- 12 common shelf and then a narrow band shelf?
- 13 A. Yes, a D4 channel bank type, if you will.
- 14 Q. And the common shelf converts the optical signal into an
- 15 electrical signal?
- 16 A. Yes.
- 17 Q. And there the narrow band shelf converts that into a DS0?
- 18 A. Correct.
- 19 Q. So you're actually feeding a DS0 into the switch; is that
- 20 right?
- 21 A. In universal mode?
- 22 Q. Right.
- 23 A. Yes; and that's sometimes often commonly referred to as the
- 24 central office terminal that does that.
- 25 Q. Okay. Now, in order to perform the function that the

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1 narrow band shelf performs in universal mode, am I correct you
2 would either have to use the switch with hairpinning, as you
3 have described, or you would have to put one of these D4
4 multiplexers after the FLM?

5 A. Yes. I think the concept of hairpinning generally presumes
6 that the MUXing down of the DS0 occurs in the switch itself.

7 Q. Okay. Which have you ever priced how much that costs, to
8 use the switch to do that?

9 A. No.

10 Q. Do you know how it compares to using universal mode?

11 A. No, I do not.

12 Q. Do you know how it compares to using the FLM 150 and a D4
13 channel bank?

14 A. I would have to perform that analysis. I haven't done so
15 to date.

16 Q. Okay. Would a proper cost study look at the three of those
17 and determine which was the cheapest?

18 A. The cost study would want to look at which is the least
19 expensive, but it would also want to factor in what is the most
20 efficient and forward looking, as well. And if for some reason
21 the universal mode was not as efficient, then that would be a
22 factor.

23 I can think of reasons why that may be. I'm trying to
24 think back to something I read in Mr. Meier's deposition
25 transcript with respect to universal mode not providing the same

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1 quality of service as integrated mode does. I believe in his
2 testimony he said that with respect to data speeds on a POTS
3 line, you cannot get the same throughput or same speeds with
4 UDLC as you can with integrated.

5 Q. Wasn't he comparing any kind of DLC to copper?

6 MR. PETRILLA: Objection, your Honor. That question
7 misstates the testimony that Mr. Meier gave.

8 THE EXAMINER: Well, he's expressed familiarity with
9 the testimony. If he believes that that's the case, then he can
10 so indicate.

11 BY MR. HART:

12 Q. Do you know which ones of the two he was comparing?

13 A. As I stated earlier before the objection, I thought it was
14 a comparison between integrated and universal mode.

15 Q. Do you know of any technical reason why the speed on the
16 digital loop carrier system would be different in integrated
17 mode and universal mode?

18 A. That would require some engineering background, which I
19 would presume that Mr. Meier would have.

20 Q. And you don't have?

21 A. Correct.

22 Q. Do you know if there are technical reasons why the band
23 width on the digital loop carrier system would be different than
24 that on the copper?

25 A. Again, that calls for engineering knowledge.

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1 Q. Okay. Now back to where we were. If you want a DS0
2 signal, would you agree with me that we've outlined the three
3 ways that a DS0 signal can be provisioned off of a digital loop
4 carrier?

5 A. Can we review those or just write them 1, 2 and 3?

6 Q. Sure. No. 1 would be I use the universal mode; No. 2
7 would be hairpin; No. 3 would be demultiplexing on an
8 integrated.

9 A. And could I trouble you to explain your conception of
10 demultiplexing as it goes through again?

11 Q. The FLM 150 and a D4 channel bank.

12 A. This is to provide a DS0?

13 Q. Yes.

14 A. Yes, that's correct.

15 Q. Okay. Do you know which of those three is the most
16 efficient, least cost method?

17 A. I think I testified just a moment ago that maybe I haven't
18 performed that analysis.

19 Q. Okay. Now, when you say you want the unbundled loops to
20 all be provisioned on integrated mode, which of the three
21 methods are you proposing we use?

22 A. Well, first of all, you couldn't use it, method No. 1, if I
23 was asking for an integrated mode.

24 Q. Which of methods 2 and 3 are you recommending, then?

25 A. Possibly method 2, but there may not be an instance where I

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1 always want that at a DS0 level. I may have an instance where I
2 have an entire DS1 of capacity and in that instance I'm willing
3 to buy a DS1 of capacity.

4 Q. In that case you're not buying individual DS0 loops, are
5 you?

6 A. Well, you might buy both in the same central office.

7 Q. Okay.

8 A. And in that instance, there is a fourth method. Let's go
9 ahead and write that on the board, if you will, the fourth
10 method. Turn --

11 Q. Well, you're talking about now going to a DS1 level; is
12 that right?

13 A. Buying them at the DS1 level and this is -- Sure.

14 Q. If we can label these, 1, 2 and 3 are to a DS0?

15 A. Yes.

16 Q. And now you want to go to the DS1.

17 A. Right.

18 Q. Okay. What's your method there?

19 A. That's what they commonly refer to as multi-hosting.

20 Q. Okay.

21 A. And it's my understanding from reading certain materials
22 produced by MCI's Law and Public Policy Group that they've
23 recently filed with the FCC, that in a multi-hosting
24 environment, if you have digital loop carrier equipment that is
25 GR303 compliant, that once you come into the FLM 150, they can

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- 1 take that signal over to a DSX cross-connect and then take that
2 directly to the collocator's cage. So --
- 3 Q. So you want to take a DS1?
- 4 A. To a DSX.
- 5 Q. To a DSX, or do you want a DCS; which of those two do you
6 want?
- 7 A. I believe it's a DSX because we're not going from DS3 to
8 DS1; we're coming in on a DS1.
- 9 Q. Okay.
- 10 A. And then you would take that signal over to the
11 collocator's cage.
- 12 Q. Okay. We'll see we've got another collo here just to make
13 the drawing neater (drawing).
- 14 A. Okay.
- 15 Q. And this is DS1, as well?
- 16 A. That's correct.
- 17 Q. So this is a jumper wire here that connects those two?
- 18 A. Apparent- -- That DSX would be a -- the digital
19 cross-connect system in the central office, so you may not even
20 have --
- 21 Q. Well, is it an automated system or a manual system?
- 22 A. It's my understanding that the DSX is a software-controlled
23 manual -- I'm sorry, automatic system.
- 24 Q. And you want the DCS, then, don't you?
- 25 A. I think the DCS would provide more in terms of ramping up

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- 1 the -- ramping up or down the signal from DS3 to DS1 or the
2 other way around.
- 3 Q. How is the DSX software controlled?
- 4 A. Again, I'm not an engineer, that's just my understanding.
- 5 Q. And this is based on something you read that MCI filed
6 somewhere?
- 7 A. That's correct.
- 8 Q. Okay. You don't have any personal knowledge of this
9 yourself?
- 10 A. Right.
- 11 Q. Okay. Now, if we were to do this and a carrier wanted one
12 loop, is that very cost effective to buy a DS1?
- 13 A. First of all, let me say I don't agree with your hypothesis
14 or hypothetical here that a carrier wants one loop because I
15 think it would be foolhardy for a carrier to collocate, to go
16 through all the expense of having a cage constructed, having
17 power leads brought in, all those expenses, to provide service
18 for one person. You simply wouldn't do it.
- 19 Q. Do you have any forecasts for CoreComm, for example, of how
20 many loops they've told Cincinnati Bell they'd like to buy in
21 any given central office?
- 22 A. No, I don't.
- 23 Q. Okay. My question for you is: On a DS0 basis if I want to
24 buy the first loop, do I still have to have a minimum of a DS1
25 under Item No. 4?

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- 1 A. In Item No. 4 you would, yes.
- 2 Q. Okay. Now, how many DS0 loops do I have to buy off of this
3 same DLC system before it's cheaper to buy the whole DS1 than it
4 would be to use method 1, 2 or 3?
- 5 A. You'd have to perform just a kind of benefit/cost analysis
6 to determine where that breakover point is. It could be five or
7 six, it could be 22.
- 8 Q. Might be 50, too, mightn't it?
- 9 A. When we're comparing a DS1, how could it be 50?
- 10 Q. I'm just asking. Do you know?
- 11 A. I previously said I have not performed that analysis.
- 12 Q. Do you know whether in GR303 one DS1 can work, or do you
13 have to buy two?
- 14 A. It's my understanding that with GR303, out of the remote
15 terminal you can field groom numerous DS0s onto one DS1 and
16 bring that back and pull one DS1 out. If you need to, that's
17 news to me, I've never seen anything to state that you have.
- 18 Q. Well, you're asking for a DS1 on a GR303 interface?
- 19 A. Yes, which the FLM 150 and the FACT- -- Fujitsu FACTR
20 system, as I read the Fujitsu FACTR model, are GR303 compliant.
- 21 Q. So the collocator somewhere has a switch which has a GR303
22 module in it that's going to operate these loops; is that right?
- 23 A. From the -- It would operate the loops from the collocation
24 cage to their premise depending upon how they route the traffic
25 to their -- where their switch is located.

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1 Q. Well, what piece of equipment is going to be in the
2 collocation cage that is going to run a GR303 system?

3 A. It may be another type of -- almost like another remote
4 terminal DLC piece of equipment.

5 Q. Okay. But where is the DS1 going to be managed from? Is
6 it going to be from that collocation cage or is it going to be
7 back at the switch?

8 A. Again, that's an engineering assumption I can't provide for
9 you.

10 Q. Do you know whether that GR303 system can be controlled
11 with one DS1 by itself?

12 A. Again, that was my understanding from reading the MCI
13 material, that you can pull one DS1 off.

14 Q. Okay. Now, back to where we started.

15 I take it you have not done any cost analysis to determine
16 what sort of volume you have to pull off that DS1 to make it
17 cheaper on a DS0 basis than methods 1, 2 or 3?

18 A. No. But I think you can look and make some hypotheses with
19 respect to the amount of traffic that you would be bringing in.
20 So let's say out here where the serving area interface is you
21 have a house drawn out here that you have 55 customers. And in
22 that particular instance CoreComm or any other NEC might
23 consider, okay, should I buy two DS1s and seven DS0s, or should
24 I just go ahead and buy the third DS1.

25 And, hopefully, you wouldn't say, "My growth in this

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1 neighborhood is going to be static over time". If you have two
2 DS1s filled to capacity and you have a third one out there with
3 seven DS- -- or, the equivalent of seven DS0s on it, you would
4 hope that through marketing activities and just general sales
5 activities you could gather a few more customers to fill up that
6 DS1. It might take you a month or two to do it, but eventually
7 you would try to maximize your....

8 Q. Now, is Mr. Mette supposed to do his cost studies based on
9 his own projections of how many loops he thinks CoreComm is
10 going to sell on a given DLC system?

11 A. Mr. Mette should do his cost studies based on a
12 forward-looking, most efficient, least cost network.

13 Q. Which a loop at a time is 1, 2 or 3, right?

14 A. Could be, yes.

15 Q. Now, unless you are able to sell enough loops in the
16 neighborhood served by this particular remote terminal, his
17 method's cheaper, isn't it?

18 A. To use universal digital loop carrier?

19 Q. Right.

20 A. Again, it's my concern that universal digital loop carrier,
21 as I saw Mr. Meier's testimony, has quality concerns.

22 Q. That's the band width issue you mentioned?

23 A. Yes.

24 Q. Okay.

25 A. Okay. So if that's the case, I wouldn't -- I would think

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- 1 that the IDLC would be considered more forward looking.
- 2 Q. Are there line cards out in this remote terminal?
- 3 A. Yes, there are.
- 4 Q. Are they any different in universal mode than integrated
- 5 mode?
- 6 A. I really don't know. I wouldn't think so, but --
- 7 Q. Well, didn't your cost study assume that everything in the
- 8 field was exactly the same?
- 9 A. In terms of the investment per line --
- 10 Q. Right.
- 11 A. -- investment per line card, I think it does, yes.
- 12 Q. Right. So you didn't assume anything was going to change
- 13 out there, did you?
- 14 A. No. At the remote terminal, nothing would change.
- 15 Q. Okay. I think you later on, about Page 50 or so, you
- 16 testified about using the electronic cross-connect abilities of
- 17 a digital loop system.
- 18 A. Yes.
- 19 Q. What benefit do you see by using those?
- 20 A. That was kind of when I had just had general discussions
- 21 with people with respect to capabilities of these type of
- 22 systems --
- 23 Q. And --
- 24 A. -- I was --
- 25 Q. I'm sorry, go ahead if you weren't finished.

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- 1 A. That's fine. I had confused those electronic cross-connect
2 systems with what I now understand to be the time slot -- time
3 slot interchanger.
- 4 Q. Okay. Those are two different things?
- 5 A. In my mind, they were the same at the time, so....
- 6 Q. Now, the cost studies that Mr. Mette proposed and which you
7 didn't change at the remote terminal site, did they include the
8 cost of a digital cross-connect system in the field?
- 9 A. It's my understanding that the Fujitsu FACTR system has the
10 time slot interchanger, if you will, where I can field groom
11 DS0s onto a particular DS1.
- 12 Q. Well, does that include the remote cross-connect capability
13 you're talking about?
- 14 A. That is the capability that I was talking about.
- 15 Q. And that's in the cost studies now?
- 16 A. It's -- I think it would be in the form of the investment
17 in the Fujitsu FACTR.
- 18 Q. Okay. Now, am I correct what that allows you to do is to
19 take individual copper pairs of subfeeder and map them onto a
20 given DS1?
- 21 A. Yes, but only within the same remote terminal.
- 22 Q. Right.
- 23 A. So if we had another remote terminal out there, you
24 can't -- obviously, that wouldn't work.
- 25 Q. Now, if -- I believe your testimony was on the topic of

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- 1 avoiding field visits; is that right?
- 2 A. Yes.
- 3 Q. You thought this system would help avoid field visits?
- 4 A. That was my understanding at the time.
- 5 Q. Okay. Now, you're aware, aren't you, that the digital loop
- 6 carrier system converts the signal onto copper subfeeder that
- 7 goes onto a serving area interface?
- 8 A. Yes.
- 9 Q. And those may be close to one another and they may not,
- 10 right?
- 11 A. Agreed.
- 12 Q. In fact, the same DLC system might feed multiple serving
- 13 area interfaces?
- 14 A. Agreed.
- 15 Q. And in the serving area interface, which is labelled as SAI
- 16 here, is basically a copper cross-connect panel?
- 17 A. Yes.
- 18 Q. And somebody has to physically go out and attach a feeder
- 19 pair to a distribution pair?
- 20 A. If that's not done when it's installed. And in my mind, I
- 21 would think that if I was going to build a TELRIC network, while
- 22 I'm out there installing that SAI to begin with, why not just go
- 23 ahead and cross-connect all those at the beginning. Obviously,
- 24 you don't know where every pair has to go.
- 25 Q. Uh-huh.

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1 A. But you could do that at the time. And in a
2 forward-looking study, as we talked about, generally we know
3 where the customers are. So perhaps 90 percent of the time if
4 you were going to build this from the ground up, you could go --
5 actually go out there and get a good deal of the
6 cross-connections made correctly.

7 Q. Now you're talking about the initial installation, right?

8 A. That's right.

9 Q. Okay. Now, aren't field visits incurred in connection with
10 new customers?

11 A. Yes.

12 Q. So the field visit isn't going to be a customer who's in
13 our known customer base now, is it?

14 A. Likely no.

15 Q. Okay. So if I just kind of randomly match feeder pairs and
16 distribution pairs together, I'm really just kind of guessing as
17 to where those customers might show up at some day, aren't I?

18 A. For the new customers. For the existing ones, you could
19 get that, correct.

20 Q. Okay. And the new customer for whom we're making the field
21 visit, when that occurs, we'll know where they are, won't we?

22 A. Yes.

23 Q. And somebody can go out and pick the pair in the
24 distribution that actually goes to that customer and attach it
25 to a feeder pair.

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- 1 A. That's correct.
- 2 Q. And we also need an attachment at the drop terminal, don't
- 3 we?
- 4 A. For the -- For the initial attachment, if it's a new
- 5 facility.
- 6 Q. And --
- 7 A. But if that individual at the drop terminal moves and
- 8 somebody else comes in, they have to assign a new line to it,
- 9 that attachment on a going-forward basis should remain there.
- 10 Q. Okay. But say this customer wants a second line. Do you
- 11 recommend that on our initial installation that we attach two
- 12 drop wires to every customer?
- 13 A. When you say "attach two drop wires to every customer", are
- 14 you talking about attaching it at the network interface device,
- 15 or on the house, or at the SAI?
- 16 Q. We're at the drop terminal.
- 17 A. Okay.
- 18 Q. You understand that most houses have a two-pair drop?
- 19 A. Understood.
- 20 Q. Is that a reasonable thing to do, to put two-pair drops out
- 21 there?
- 22 A. Sometimes two, yes.
- 23 Q. Okay. Sometimes more, or --
- 24 A. I think sometimes they do two or five.
- 25 Q. Okay. So at least two.

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1 Should both of those drops be cross-connected to a
2 distribution pair on initial installation?
3 A. They could -- They could be. If there's --
4 Q. Okay. Now --
5 A. If there's capability in the SAI to permit that, then I
6 wouldn't have a problem with that.
7 Q. And for there to be capability to do that, I need two
8 distribution pairs for every household, don't I?
9 A. Yes.
10 Q. That's what Cincinnati Bell does, isn't it?
11 A. Two distribution pairs per household?
12 Q. Right.
13 A. I know there's two pairs per drop, but with respect to --
14 I'm trying to -- I'm hard pressed to recall if the distribution
15 has -- I may have it in here somewhere. That sounds right.
16 Q. Okay. If I'm going to connect both these drops to a
17 distribution pair, then I have to know that I've got enough
18 pairs to do that, don't I?
19 A. And enough capacity inside the SAI to make all those
20 cross-connects.
21 Q. Okay. Now, the electronic cross-connect capability in this
22 remote terminal, that doesn't help us at the SAI or the drop
23 terminal, does it?
24 A. No. That -- What that does is permits you to, once again,
25 field groom those individual DS0s coming from the drop terminal

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1 through the SAI and into the DLC onto a particular DS1.

2 Q. Okay.

3 A. And where that would help you in the future, though, is
4 say, for instance, that CoreComm had three customers that were
5 field groomed onto their particular DS1 and now those three
6 customers for some reason decide they prefer to have CBT service
7 instead.

8 From a node on that network, the node probably meaning
9 somewhere near the FLM in the central office -- this is just my
10 understanding of Mr. Meier's testimony -- you could hook up a
11 laptop PC and actually change that field grooming arrangement
12 either at the remote terminal or at a node in the central
13 office.

14 Q. Okay. Now, you would agree with me, if I'm going to use
15 this remote terminal to assign pairs, that the pairs also have
16 to have been assigned at the SAI and at the drop terminal?

17 A. Yes.

18 Q. And if all three of those things haven't happened, I still
19 need a field visit?

20 A. That's correct. And that's why I was advocating that,
21 wherever possible, on a forward-looking basis, go ahead and
22 connect that loop all the way through from the NID to the
23 pedestals to the SAI to the remote terminal and all the way back
24 into the central office.

25 Q. Both pairs to everybody?

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1 A. Where practical.
2 Q. Okay. Now, this digital cross-connect (indicating) doesn't
3 help me on copper feeder either, does it?
4 A. No, I don't believe so.
5 Q. Because those are still all mechanically attached?
6 A. One to one, right.
7 Q. Okay. One of the questions about the digital
8 cross-connects, those are all done electronically, right?
9 A. The -- Where we field groom the DS0s onto -- through the
10 time slot interchange under a DS1.
11 Q. Uh-huh.
12 A. Yes.
13 Q. And those are held in memory somewhere, some electronic
14 piece of equipment that has some memory?
15 A. I would presume, although I wouldn't know where that would
16 be.
17 Q. If that memory fails and you reinitialize the system, how
18 do the lines connect themselves?
19 A. The only thing I can say is that in this instance I don't
20 know. In the central office when you have a digital
21 cross-connect system, generally those systems -- and I have seen
22 this in central offices -- have a floppy -- or, they call a
23 floptical drive, it's an optical small disk that they put in,
24 and on a frequent basis it backs that up so if the system should
25 go down, that it brings it back up with what's recorded on that

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1 particular.... And I would imagine that these systems have some
2 type of capability like that, but specifically what it is, I
3 couldn't tell you.

4 Q. Okay. But until we can go out and correct the problem, all
5 these loops that are digitally cross-connected are going to
6 suddenly connect straight through and they will be connected to
7 the wrong lines, won't they?

8 A. I, from an engineering perspective, couldn't say "yes" or
9 "no".

10 Q. Okay. I guess you're unaware about what the CoreComm
11 agreement actually says about integrated digital loops, aren't
12 you?

13 A. The -- What, the agreement with CBT?

14 Q. Right.

15 A. Again, having testified I've not seen it, I'm unaware, yes.

16 Q. Okay. Now, one of the other things you advocate on Page 33
17 of your testimony is that Cincinnati Bell used 17,000 feet as
18 the threshold for universal digital loop carriers, correct?

19 A. Yes. In the Cincinnati Bell Telephone feeder and
20 technology section of the planning guidelines, on Page 13 of
21 that document, in fact, it does say for -- states, "This study
22 determines the distance thresholds at which digital loop
23 carrier -- integrated and digital loop carrier technologies
24 became more economic than copper. The results were as
25 follows..." And for integrated digital loop carrier they had

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1 17,000 feet or 17 kilofeet.

2 Q. Is that integrated or universal?

3 A. That was universal.

4 Q. Okay. And what year was that study done?

5 A. That was done in 1991.

6 Q. Are the economics of universal digital loop carrier the
7 same today as they were in 1991?

8 A. I have not performed that study; I couldn't say yes or no.

9 Q. Okay. Well, I'm trying to understand the impact of your
10 recommendation. Would that mean that loops that are shorter
11 than 17,000 feet would be on copper?

12 A. Under those guidelines, if you were using universal digital
13 loop carrier, then if you had loops shorter than 17,000 feet,
14 they would have been on copper.

15 Q. Do you think we should do that?

16 A. On a forward-looking basis, I would, first of all,
17 advocate, once again, not to use universal digital loop carrier;
18 to use integrated. And in that instance then you would --
19 according to this, you would have no copper loops longer than 12
20 kilofeet. I think that's more reasonable.

21 Q. Okay. But if we're going to use universal for some
22 service, you think we should go to 17,000 feet before we put
23 that in?

24 A. Again, not being an engineer, that's not something I'm able
25 to answer.

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1 Q. Well, you testify to it here, don't you, on Page 33 and the
2 top of 34?

3 A. If you could point me directly where I say that's what you
4 should do.

5 Q. Look at Line -- Page 34, Lines 2 through 4.

6 A. I'm sorry, I thought we were talking integrated. I'm
7 sorry. That was the reason for my confusion. I apologize.

8 Yes, for universal, that's the recommendation.

9 Q. Okay. A couple other questions about how you recreated the
10 loop studies. I understand you accepted Cincinnati Bell's
11 bands as the way they were proposed, correct?

12 A. That is right.

13 Q. And we've got a question about the loop mix. I'm going to
14 have a document for you a little bit later on.

15 You also accepted Cincinnati Bell's trenching cost, didn't
16 you?

17 A. Yes.

18 Q. I think you testified in your deposition that you reviewed
19 the contracts and found those rates were more appropriate than
20 what Mr. Starkey had recommended?

21 A. I remember that discussion in my deposition, but if you --
22 I have a copy of the deposition transcript here if you would
23 kindly point me to the page.

24 Q. I'll try to.

25 Well, at the top of Page 167 you say that --

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1 A. Is that of Volume -- I'm sorry to interrupt, is that of
2 Volume I or II?

3 Q. Volume I.

4 You say you took no position on the trenching issue,
5 accepting CBT's position there, right?

6 A. That was Page 167?

7 Q. Uh-huh.

8 A. Can you help me out with the line number?

9 Q. Lines 2 and 3.

10 A. Yes.

11 Yes, I'm looking for the rest of your question with respect
12 to Mr. Starkey.

13 Q. Well, look at the bottom of Page 176 where I asked you,
14 "Well, why did you put it on that side as opposed to the MCI
15 side?" And at the top of Page 177 you say, "The only thing I
16 can say is I saw the contracts for that and I just chose to
17 leave it as CBT. There was not a rationale behind it at all. I
18 wanted to -- I could have put it on the MCI side and that might
19 have, you know -- and again, I don't even know that I ever
20 performed that sensitivity analysis either, but that may be a
21 large factor, it could, might only change the loop cost in a
22 very small fashion as well, I don't know".

23 Is that what you said?

24 A. That's a correct reading from the transcript, but you, in
25 your question, made reference to my making reference to

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- 1 something Mr. Starkey had done with respect to his calculation,
2 and I don't see that there.
- 3 Q. Well, you said you read the contracts, right?
- 4 A. Yes.
- 5 Q. And you recall Mr. Starkey's testimony was that in his
6 review of the contracts, he chose a different number, right?
- 7 A. Lower number for trenching.
- 8 Q. And you looked at the same contracts he looked at and you
9 left Cincinnati Bell's position alone?
- 10 A. Yes.
- 11 Q. When the TELRIC study designs this theoretical network, am
12 I correct you should plan for some growth?
- 13 A. Yes, that would be fair.
- 14 Q. Okay. And how much growth should I plan for?
- 15 A. The local service guidelines call for a kind of study or
16 planning horizon of five years, so I would think that growth
17 over that period would be appropriate.
- 18 Q. All right. What are you recommending as an initial
19 construction fill? Let's talk about loop distribution.
- 20 A. I have recommended a fill of 85 percent.
- 21 Q. Okay. When you reviewed the transcript of Mr. Mette's
22 testimony, do you recall discussion about growth rates of 4
23 percent?
- 24 A. It sounds familiar, but in terms of....
- 25 Q. How many years will a network built at 85 percent design

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1 fill last at 4 percent growth before you have to reinforce it?

2 A. Less than four.

3 Q. Okay. So if I was to plan a network at an 85 percent fill,
4 shouldn't I also take into account what it's going to cost to
5 reinforce that network in the five-year period?

6 A. As Dr. Ankum has testified, I think you could do a
7 benefit/cost analysis with respect to the fill and the cost of
8 the reinforcement to make certain that you're not carrying so
9 much excess or spare capacity, especially at the annual charge
10 factors as I see them proposed by CBT, that carrying that amount
11 over five years or whatever the planning horizon is, indeed,
12 exceeds the cost of that reinforcement.

13 But as I argued in my deposition, with respect to an 85
14 percent fill, we talked here today that TELRIC planning horizon
15 or the TELRIC methodology is theoretical in nature. We're
16 building this network from the ground up. And in the deposition
17 we used the example where we had a neighborhood and we knew that
18 it was fairly constrained, that you couldn't put a whole lot of
19 additional houses in there, we knew that we had pretty good
20 information with respect to the number of customers that take
21 one access line, the number of customers that are taking two,
22 the growth rate in that desire for that second access line.

23 And so from that standpoint then you can say perhaps I
24 could engineer to an initial 85 percent fill because although
25 growth rates over the entire area may -- in fact, accepting,

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1 subject to check, what we talked about, the 4 percent, that with
2 the knowledge of where customers are located, knowledge of how
3 many lines they take, et cetera, we can use that, what I would
4 call good or perfect information, to logically plan where we
5 need to put facilities.

6 Q. Now, my original question was: Are we supposed to compare
7 the cost of initial placement and reinforcement to the cost of
8 placing a larger capacity up front?

9 A. I am hard pressed to think of any location in the FCC
10 rules. I think that -- in fact, I don't believe it's there,
11 that says yes, you should make that comparison. But I think
12 that would be a logical comparison that the company would want
13 to go through --

14 Q. I'm talking about -- I'm sorry, finish.

15 A. -- with respect to making certain that they're placing
16 plant the most -- in the most efficient manner possible.

17 Q. And, likewise, before you would recommend building a plant
18 to 85 percent fill, shouldn't you consider what the
19 ramifications of doing that are a few years down the road?

20 A. If, indeed, the 4 percent growth per year is accurate
21 across the entire network and we're looking at a five-year
22 planning horizon, that's possible.

23 But if you have good information, once again, with respect
24 to where those customers and access lines are located and you
25 have reasonable forecasting data with respect to how many access

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1 lines people take and where growth is likely to occur....

2 Q. You used word a minute ago, or the term, "perfect
3 knowledge". Is there anywhere in the FCC order where it says
4 TELRIC assumes that the incumbent has perfect knowledge of where
5 the customers will be?

6 A. I used the term "perfect information" instead of "perfect
7 knowledge", but --

8 Q. All right. Amend my question, then, to use that.

9 A. Sure. Using that synonymously.

10 No, I don't believe there's anything with respect to that
11 precise term, but that's my understanding, that on a
12 forward-looking basis you would have a reasonably accurate idea
13 of where your customers are located and where future growth can
14 possibly occur.

15 Q. In fact, what we're going to have to do is make reasonable
16 estimates about where we think it is, aren't we?

17 A. Yes, and I think that could be done.

18 Q. Now, if I look at two placement scenarios, one that I
19 expect to exhaust in several years and I'll have to reinforce,
20 and another where I can make an initial placement and be fairly
21 certain I'll never have to reinforce, what things do I compare
22 to determine which of those two is the least cost alternative?

23 A. I think you would want to compare on the side where you're
24 looking at potential reinforcement, what that would cost to go
25 out and actually reinforce a particular cable. And that

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1 certainly is -- can be a costly proposition with respect to
2 going out, trenching, digging up streets if necessary, those
3 type of things.

4 But, on the other hand, if we look and say, okay, let's
5 engineer to a 60 percent factor and for every ten pairs that we
6 put in the ground, four are going unused, and over time if we
7 assume over that same time horizon that we have that 4 percent
8 growth per year, then we would be up to 76 percent growth, you
9 know, with our -- the minuscule effects of compounding each
10 year. Then you're still carrying 25 percent, or almost 25
11 percent, additional plant.

12 So of every four pairs that you would put in the ground at
13 the end of that five-year planning horizon, one out of every
14 four of those pairs is going unused. And you would want to look
15 at your carrying charges on that amount of plant and see if that
16 approaches the cost of reinforcement.

17 Q. Well, would you agree with me that the -- let's use an
18 example -- a 200-pair cable as compared to a 100-pair cable,
19 that is it does not cost twice as much to put a 200-pair cable
20 into service as it does to put a 100-pair cable into service?

21 A. I would agree with that.

22 Q. Would you agree that if I put in a 100-pair cable and I
23 come back sometime in the future and put in a second 100-pair
24 cable, that that will cost more than twice what the original
25 cable cost?

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1 A. Possibly, yes.

2 Q. When you talk about carrying charges, let's talk about
3 first the actual cost of installation. Wouldn't you have to
4 compare the cost of that incremental 100 pair that's in my
5 200-pair cable against the total cost of placing the second
6 cable to see which was cheaper?

7 THE WITNESS: Could I have that read back? I'm sorry.

8 (Question read back as requested.)

9 THE WITNESS: Is there a way to break that down into a
10 couple parts or --

11 BY MR. HART:

12 Q. Maybe I can --

13 A. Sure.

14 Q. -- draw on the board. That will help.

15 Here's the choices we're trying to analyze. We've got a
16 100-pair cable, we've got a 200-pair cable, and then at some
17 point in the future a second 100-pair cable, right?

18 A. Right.

19 Q. You, I believe, already agreed with me that this 200-pair
20 cable does not cost twice what the 100-pair cable does.

21 A. Right.

22 Q. And that this 100-pair cable that I'm going to place in the
23 future is probably going to cost more to install than the first
24 100-pair cable did.

25 A. I would agree, it would cost every bit as much at least,

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1 probably.

2 Q. So what I need to compare is what's the incremental
3 difference between a 200-pair cable and 100-pair cable now,
4 against the cost of coming back some day and putting in another
5 100-pair cable; that's the cost/benefit analysis, right?

6 A. Right.

7 Q. Could you define "fill" for me?

8 A. As I believe in the deposition I defined it as the total
9 working pairs or pairs in service over total pairs.

10 Q. Okay. So you define it as pairs?

11 A. Well, in the context of wire.

12 Q. For distribution?

13 A. Yes.

14 Q. Let's stay with the same topic.

15 A. Yes.

16 Q. Now I want to ask you a little bit about how the LCAT model
17 works and your re-creation of it.

18 Does it first start by determining the cost to install
19 cable on a per-pair-foot basis?

20 A. Yes. It begins by determining for each plant type, feeder
21 or distribution, and the drop's always an assumption, but for
22 feeder and distribution; and then by plant type, aerial, buried
23 and underground, what the cost is to install that cable on a
24 per-pair-foot basis.

25 Q. In fact, there's some cable design sheets that have

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1 different sizes of cables and different pieces of hardware that
2 need to be installed, all of which lead to a bottom line that's
3 expressed in terms of pair feet, right?

4 A. Right.

5 Q. And then the model next takes those costs per pair foot and
6 applies them to what's called an average loop, right?

7 A. With respect to the re-creation of the LCAT, which is what
8 I have seen because I've never seen an electronic copy of the
9 LCAT itself, with respect to the re-creation, once we get to
10 that investment per pair foot, then the fill is applied to get a
11 fill-adjusted investment per pair foot.

12 Q. Well, is that the next step, or do we go to the cable
13 design sheet and figure out how many feet of each kind of cable
14 we have? It's the one that has like a schematic diagram of a
15 loop on it.

16 A. Sure.

17 On this particular schematic, and I'm looking at the
18 residence copper unbundled page, you take the length of a
19 particular segment of the cable and you multiply that times the
20 fill-adjusted investment per pair foot for that type of cable.

21 Q. Where does it say "fill adjusted"?

22 A. I don't know that it does, but if we come over here --

23 Q. Doesn't the result of that page carry over to the page
24 where the fill is applied?

25 A. Yes, that's correct.

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- 1 Q. Okay. Now, on the page you have that shows the cable
2 design --
- 3 A. Yes.
- 4 Q. -- it has the loop length, the feeder and the distribution
5 piece, are those the lengths that appear in Mr. Mette's samples,
6 the average sample?
- 7 A. Those are lengths that were taken directly from the LCAT
8 outpages -- output pages.
- 9 Q. And are they the same as the loop lengths in the Cincinnati
10 Bell loop sample?
- 11 A. I've not made that comparison.
- 12 Q. Is it your understanding that that is intended to represent
13 an average loop?
- 14 A. Yes, it is.
- 15 Q. Okay. So we take an average loop and multiply its length
16 times the cost of cable per pair foot; is that right?
- 17 A. That's correct.
- 18 Q. And then we take those numbers and they go over to the next
19 page where they are divided by a fill to develop unitized
20 investment?
- 21 A. That's correct.
- 22 Q. And then there's another page that takes that unitized
23 investment and applies annual charge factors and divides by 12
24 to come up with a monthly rate?
- 25 A. That's correct. On that second page that you just

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1 described there's also one other portion where the pole and
2 conduit factor is applied.

3 Q. That's applied to the cable, both fiber and copper, in
4 order to include the cost of poles and conduit?

5 A. Right.

6 Q. Okay. But there's not a fill application to those, is
7 there?

8 A. No. That occurs --

9 Q. Let's just make a note of those steps so we can keep track
10 of them, if I can erase the other numbers I have here.

11 First we get the cost per pair foot; is that right?

12 A. Correct.

13 Q. And then we take that times the number of feet, right?

14 A. Yes.

15 Q. And this will give us the investment per pair, right?

16 A. Correct.

17 Q. Then I --

18 A. I was going to say, it would be more correct to say
19 investment per pair foot.

20 Q. Well, we have already multiplied times feet?

21 A. Yes, correct.

22 Q. So the feet are going to cancel each other out and we're
23 now per pair?

24 A. That's correct.

25 Q. And next we're going to divide by fill?

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- 1 A. Correct.
- 2 Q. And last we're going to multiply times ACF and divide by
3 12?
- 4 A. For the monthly cost, yes.
- 5 Q. Okay. Now, let's try to model this on a loop. I guess I'm
6 going to have to erase something. Let's get rid of this up here
7 (indicating).
- 8 Let's say I have a distribution segment, we're coming from
9 a SAI, and I have a cable that runs out here a thousand feet,
10 okay?
- 11 A. All right.
- 12 Q. Now, applying this theory, let's just assume my cost per
13 pair foot is 10 cents, just to have a number, okay?
- 14 A. Okay.
- 15 Q. Now, assuming my customers are evenly distributed on this
16 cable, would you agree with me that the average loop would be
17 about 500 feet on that cable?
- 18 A. Correct.
- 19 Q. Okay. So I multiply that times 500, and I end up with \$50
20 investment?
- 21 A. Yes.
- 22 Q. Give me a fill that you'd like to see on this cable.
- 23 A. Although I wouldn't advocate this for simplicity, let's use
24 50 percent.
- 25 Q. Okay. 50 percent fill. I'm going to divide by 50; is that

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1 right?

2 A. Yes.

3 Q. Now, that means I have 50 customers, doesn't it? Let's
4 assume this is a 100-pair cable, I have 50 customers?

5 A. Yes.

6 Q. Dividing by 50 gives me what, a hundred?

7 A. Yeah.

8 Q. Okay. Let's skip the ACF piece because we can deal with
9 investments to investments, okay?

10 A. Sure.

11 Q. Now, if I have 50 customers, that means to recover my
12 investment I would expect to get \$5,000, is that right,
13 multiplying times the number of customers times my investment
14 for unitized pair?

15 A. Right.

16 Q. So \$5,000 should make me whole?

17 A. Yes.

18 Q. Now I've got a thousand feet of cable times 10 cents times
19 a hundred pairs, that's \$10,000; isn't it?

20 A. That math is correct.

21 Q. Okay. So that means that for my cost study to work out, I
22 need to actually divide by .25 to get up to \$200 a loop to get
23 to my 10,000; is that right?

24 A. I'm troubled by this analysis because we're not taking it
25 through the annual charge factor, and again that's where our

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1 capital recovery is going to come from.

2 Q. If we did that, wouldn't all these numbers be multiplied by
3 the same thing? Say my annual charge factor is .3, my hundred
4 dollars loop is going to pay \$30 a year, right?

5 A. Take me through the math one more time, starting with cost
6 per pair foot.

7 Q. Ten cents a foot, got a 500-foot loop on average, so the
8 loop should cost me \$50 on average, half my pairs are in use so
9 each customer has to pay for two, right, so each customer is
10 paying a hundred dollars, but those 50 customers are only going
11 to give me \$5,000 back. My cable cost me \$10,000; right?

12 A. A thousand feet -- Yes.

13 Q. So while I may have designed my cable for 50 percent fill,
14 using the LCAT model, that's effectively 25 percent, right?

15 A. Given this set of math, it is.

16 Q. Okay. And if I were to accept your 85 percent fill that
17 would yield 42-1/2, right, the same calculation would get me to
18 that result, wouldn't it?

19 A. Sure.

20 Q. Where did you come up with 85 percent?

21 A. As I testified in the deposition, I, while working at AT&T
22 had seen a publication called BOC Notes on the Network, and they
23 talked about a 85 percent trigger point for an instance where
24 would you want to consider or look at reinforcement.

25 Q. So that's kind of a high-water mark at which you might

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1 consider adding some more loops?

2 A. That's correct.

3 Q. That's not where would you start, is it?

4 A. Well, that was a high-water mark when you would consider
5 adding more loops on a historic embedded basis when you were not
6 constructing a network from the ground up, but were constructing
7 a network on an as-you-go basis.

8 And when you're constructing a network based on a TELRIC
9 methodology, forward-looking methodology, you have the luxury,
10 if you will, of what I called earlier perfect information. And
11 once again, with that information I know where my customers are
12 located, I know or have a good idea with respect to how many
13 lines each customer takes, do they take one, do they take two, I
14 can sample and find an average.

15 So in that respect, if I build to, then I can monitor that
16 network and watch to see if reinforcement would be needed. But
17 once again, if you have that good information from the beginning
18 over, say, a five-year planning horizon, and this is not to
19 doubt Mr. Mette's 4 percent, it's just that I haven't seen the
20 information to substantiate that. But if say the growth was 2
21 percent per year over that five-year planning horizon, then you
22 would be fine.

23 Q. Okay. Now, when you reran the loop model and you changed
24 the fill assumption, where it said 35 percent in the Cincinnati
25 Bell study, did you just plug in 85 percent?

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- 1 A. I can tell you for certain.
- 2 A. Yes.
- 3 Q. Now, that sort of assumes, doesn't it, that 85 percent
4 would be the right number to use in that particular cost model?
- 5 A. Correct.
- 6 Q. And then didn't we just walk through an example that would
7 indicate that 85 percent won't recover the investment the way
8 that model works?
- 9 A. If we presume the average loop length to be 500 feet, then
10 yes.
- 11 Q. Okay. And if we even used a hundred percent fill, the cost
12 model would tell us to use 50 percent in that example, wouldn't
13 it?
- 14 A. Based upon this math, correct.
- 15 Q. Okay. Now, on Page 38 of your testimony you've got a chart
16 that shows some different fills. Do you see that?
- 17 A. Yes.
- 18 Q. And in the column for distribution you indicate that New
19 York has approved 50 percent and Maryland has approved 50
20 percent and Georgia has approved 48 percent.
- 21 A. Correct.
- 22 Q. Can you tell me how the companies that achieved those
23 results used them in cost studies?
- 24 A. I think as I testified in the deposition, I haven't seen
25 those particular studies, but I think one could look at that and

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1 make some inferences why perhaps those would be that way. You
2 see Indiana uses 80 percent.

3 Q. I see that, and you also have New Mexico at 75 to 85, but
4 you corrected your testimony to say they didn't have a
5 distribution --

6 A. That's correct. I had 75 and 80 for copper feeder and
7 fiber feeder.

8 Q. Okay. Now, that New York order includes New York Telephone
9 Company that serves New York City, doesn't it?

10 A. Yes.

11 Q. Pretty much the densest telephone population in the United
12 States, isn't it?

13 A. That's fair.

14 Q. And they approved 50 percent distribution?

15 A. Yes.

16 Q. Can you tell us where Ameritech came up with 85 percent?

17 A. That was, from what I understood, calculated in the
18 Ameritech Cost Resource.

19 Q. Have you ever seen that?

20 A. No, as I testified in the deposition, no, I have not.

21 Q. Have you ever talked to anybody at Ameritech about how it
22 works?

23 A. No.

24 Q. Have you ever seen an Ameritech cost study?

25 A. No, I have not.

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1 Q. What is your --

2 A. Let me correct that. I have recently seen portions of an
3 Ameritech cost study for their biennial filing in the State of
4 Michigan recently.

5 Q. Okay.

6 A. But that would be since my deposition.

7 Q. Okay. What is your expertise then for coming here and
8 recommending that 85 percent be the right fill for Cincinnati
9 Bell?

10 A. Sure. Once again, having reviewed or looked at the BOC
11 Notes on the Network and considering the availability of perfect
12 information and constructing a forward-looking TELRIC network,
13 additionally I've talked to AT&T's engineers in cases involving
14 GTE and those engineers believed as well that on a
15 forward-looking basis a 85 percent factor for distribution was
16 not unreasonable.

17 Q. And those AT&T engineers didn't come here to testify, did
18 they?

19 A. No, they did not.

20 Q. So I'm not able to inquire of them as to what their basis
21 was for 85 percent, am I?

22 A. No, you're not.

23 Q. Are you familiar with the Commission's order in Ameritech
24 in Ohio? Have you ever read it?

25 A. No, I've not seen it.

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- 1 Q. Did you know that Ameritech had been using its ACAR fills
2 in LRSIC studies for retail purposes?
- 3 A. For retail purposes? No, I did not.
- 4 Q. Do you know whether that influenced the Commission's
5 decision as to what the fills should be for TELRIC cost studies?
- 6 A. No, I do not know how that --
- 7 Q. Wouldn't anything you would say here about how Ameritech
8 designed its fills be complete speculation?
- 9 A. As I've testified before, I have not seen their ACAR.
- 10 Q. Remember me asking you, "Now your statement about what
11 Ameritech did is complete speculation, isn't it, and you
12 answered "Yes"?
- 13 A. That sounds familiar. I'd like -- Can you just point me to
14 the page?
- 15 Q. Page 139, Volume I.
- 16 A. Volume II?
- 17 Q. Volume I.
- 18 A. Volume I or II, though?
- 19 Q. Volume I.
- 20 A. I'm sorry.
- 21 Q. And to be fair, you were talking about the fills on
22 electronics at that point. Do you recall that?
- 23 A. Yes.
- 24 Q. And do you have anymore information about how Ameritech
25 designed its copper loop fills than you do on its digital loop

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1 carrier systems?

2 A. Once again, I'd just have to repeat that I have not seen
3 those.

4 Q. Do you know whether Ameritech has expressed those fills as
5 what it expects to be its maximum usable fill?

6 A. No, I do not.

7 Q. Does the TELRIC methodology call for the maximum possible
8 fill?

9 (Pause.)

10 A. I don't believe so.

11 Q. In fact, they require that we estimate the proportion of
12 the facility that will be filled, correct?

13 A. That's fair.

14 Q. Let's go on to the subject of structure sharing which
15 begins on Page 38. I want to ask you about the question on Page
16 39. You state that -- at the bottom of that page, "As more
17 facilities-based NECs enter the Cincinnati market and begin to
18 deploy their own loop and transport plant, the degree of
19 structure sharing will exceed that observed in 1997"; is that
20 right?

21 A. Yes.

22 Q. So in your assumptions for structure sharing, you're
23 telling us that you do expect to see loop plant built by
24 competitive NECs in Cincinnati?

25 A. That's a possibility. In fact, I think we alluded to it

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1 earlier this morning when we talked about the Time Warner/AT&T
2 activity with respect to their provisioning of plant via coaxial
3 cable networks, and in instances where there are new locations
4 where coaxial -- or, existing locations where coaxial cable is
5 presently nonexistent, they would likely want to share poles and
6 conduits.

7 Q. Now, doesn't Time Warner already have a ubiquitous network
8 in Cincinnati?

9 A. I would presume that it's fairly ubiquitous, yes, although
10 there will be new areas that develop.

11 Q. And does this mean then you're expecting that someone else
12 in addition to Time Warner will be building loop plant?

13 A. It's possible, yes.

14 Q. In fact, in Line -- on Page 40, Line 12, you say,
15 "...emerging local markets in which NECs seriously plan to
16 compete with the ILEC on a facilities basis, (e.g., CoreComm and
17 MCI in Cincinnati", correct?

18 A. Yes.

19 Q. So for you to say Cincinnati Bell should recognize
20 additional pole and conduit revenues, you have to agree with me
21 that there is going to be serious competition on a facilities
22 basis in Cincinnati, right?

23 A. I will agree with you that there will be competition. With
24 respect to adding the term "serious", I am a little more hard
25 pressed to agree with you there, especially when you factor in

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1 what I had looked at here.

2 Once again, I, in my testimony, had indicated that the
3 amount of revenue from structure sharing was \$419,000.

4 Q. Well, you chose the word "seriously", didn't you, Line 12,
5 Page 40?

6 A. Yes, and I think that word was meant in the context of --
7 to compete in earnest. I think with respect to the use of
8 "serious" as I understood it -- and correct me if I'm wrong in
9 your question -- you were using that to mean faster,
10 significantly large amounts, please correct me if I'm wrong.

11 Q. Well, you're using it in the sense that they are so serious
12 that they actually plan to build some facilities and use pole
13 and conduit.

14 A. Yes.

15 Q. Okay.

16 A. But with respect to if there's \$419,000, almost \$420,000 in
17 in revenue from pole and conduit, we multiply that times 8
18 percent, that is a figure of 33,000 -- almost \$33,600 a year,
19 and with respect to pole attachments, conduit rental, that type
20 of thing, that should not take a substantially large amount of
21 new facilities to be placed on or in those structures to achieve
22 that.

23 Q. How much is the rent on a pole?

24 A. That I do not know.

25 Q. And I believe you said in your testimony that you're going

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1 to use a 8 percent factor; is that right?

2 A. Yes, that's correct.

3 Q. And that's in the first year?

4 A. That's correct.

5 Q. Now, in the next section, which is numbered 6 at the bottom
6 of that page, you start talking about the 10 percent
7 miscellaneous factor, right?

8 A. That's correct.

9 Q. Now, you do agree, don't you, that miscellaneous costs do
10 arise that aren't necessarily planned for?

11 A. That can happen, yes.

12 Q. And the types of costs that Mr. Mette has described as
13 going into that 10 percent are, in fact, the kinds of costs that
14 telephone companies incur, aren't they?

15 A. I would agree with that.

16 Q. And do you recall reading Mr. Mette's testimony of December
17 1997?

18 A. Is that the version of the testimony where -- I'm sorry, it
19 was a deposition transcript, I think, where there was an inquiry
20 as to what was in that 10 percent and at some point sometime
21 back in the past that that was -- nobody knew at that time and
22 it had to be investigated later?

23 Q. Actually, I'm referring to testimony that was filed in this
24 case to calculate a portion of that 10 percent. Have you read
25 that?

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1 A. Yes, I think I've seen that, yes.

2 Q. Well, first of all, in your testimony you say that --

3 A. What they include.

4 Q. I'm sorry?

5 A. I'm sorry, in my testimony on Page 41, in fact, I quoted
6 from that testimony what those costs include.

7 Q. Okay. But you didn't raise any criticism of the
8 calculation that Mr. Mette made in that testimony where he
9 demonstrated part of those costs, did you?

10 A. No, rather I took issue with the fact that if there are
11 certain miscellaneous costs there could possibly be offset as
12 well.

13 One of the items he lists are changes in weather and you
14 might have a spring or fall, winter, where the weather is
15 absolutely perfect and you can do much more construction than
16 you otherwise may be able to, even planning for some down time.

17 So my argument there was that those unexpected occurrences
18 on the flip side should offset that 10 percent.

19 Q. Well, do the cost studies assume good weather?

20 A. As I testified in my deposition, I didn't see those parts
21 of the cost studies, or was unfamiliar with what assumptions
22 were made in that 10 percent.

23 Q. Let me ask you this: If the cost study assumes that the
24 times stated therein would be the time to perform that work in
25 good weather, how does good weather shorten the time?

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1 A. For instance, let's just take one season of the year,
2 winter, and you want to do some construction in the winter, and
3 you presume that due to snow cover, ice conditions, you may have
4 20 days out of the winter where that's not possible, so you
5 factor that out. That would be considered good weather, that 20
6 days of down time.

7 But if you have an exceptionally warm, low precipitation
8 winter, and you can work all but five or ten days of that
9 winter, then that would factor it out.

10 Q. Well, do the cost studies count the number of days in the
11 year work can be done or do they calculate the number of hours
12 that specific tasks will require?

13 A. Once again, I've not seen those studies so I couldn't
14 answer that.

15 Q. Well, you've got the cable makeup sheets in your LCAT
16 study, don't you?

17 A. I never equated those to the miscellaneous 10 percent
18 factor.

19 Q. Isn't the 10 percent factor on those sheets?

20 A. Although the 10 percent factor does occur down at the
21 bottom with respect to the number of hours and down downtime for
22 inclement weather emergencies, I don't recall seeing that at
23 all.

24 Q. That's because there isn't any, isn't it?

25 A. I'd have to say I don't know.

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1 Q. Well, aren't there line items on there for splicing and
2 placement, and it has the number of hours stated?

3 A. Yes.

4 Q. Okay. And that is what is being added to, isn't it?

5 A. To come up with the 10 percent?

6 Q. Right.

7 A. Yes.

8 Q. There's nothing in there that says those number of hours
9 assumes I can't work 20 days out of the year, is there?

10 A. Once again, without being able to have that electronic
11 model in my hands to see the underlying logic, I wouldn't be
12 able to say "yes" or "no".

13 THE EXAMINER: Let's go off the record for a minute.

14 (Recess taken.)

15 THE EXAMINER: Back on the record.

16 BY MR. HART:

17 Q. Mr. Gose, on the break, we were looking around and I think
18 we found the sheet that supports your loop breakdown. I think
19 it may be in your study; it's the very last page on the
20 individual loop studies.

21 A. Yes.

22 Q. Do you have one of those with you?

23 A. Well, no -- Perhaps. Yes, I do.

24 Q. Okay. Now, by our calculation, the first line on that
25 document which shows the West 7th Street office, that that loop

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1 breakdown meets your -- or, matches your 79 percent business
2 figure.

3 A. Okay.

4 Q. You want to verify that?

5 A. Yes. Yes, exactly. I divided the business loops of 57,545
6 by 72,267 and that came up precisely with the 7,963.

7 Q. And if you look at the rest of the central offices that are
8 identified in Band 1, would you agree with me that with a few
9 exceptions, by far there are more residential loops than
10 business loops?

11 A. That's correct.

12 Q. Would you agree with me then that the 79 percent figure you
13 used for Band 1 is most likely only West 7th Street?

14 A. Yes, I would.

15 Q. And would that then mean that the loop rate that you
16 calculated for Band 1 would be in error?

17 A. It would be slightly lower than it should be.

18 Q. It ought to be higher then if we use the right mix of
19 business and res?

20 A. It would be somewhat, yes.

21 Q. Now, in the model that you ran, I take it you took out the
22 10 percent miscellaneous cost --

23 A. Yes, I did.

24 Q. -- we were just discussing?

25 A. And in the deposition I mentioned how I did that, and what

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1 I had done was multiplied the investment per pair amounts times
2 .9 and you correctly pointed out to me that that was an error, I
3 should have divided by 1.1.

4 Q. Have you fixed that?

5 A. Yes, I have.

6 Q. Now, one other thing you did, I believe, is apply a
7 discount to the Fujitsu FACTR equipment; is that right?

8 A. There is a column in there to apply a 11 percent discount,
9 yes.

10 Q. Does that apply the same discount to all the electronic
11 equipment?

12 A. I believe so, yes.

13 Q. Do you know if the contract calls for the same discount on
14 all the electronic equipment?

15 A. No, I don't. That was a portion of the model that
16 Mr. Starkey developed prior to turning it over to me.

17 Q. Now, when you substituted the fill factors that you're
18 recommending for those that Cincinnati Bell had used in its
19 model, did you make any adjustments to the design of the cable
20 plant?

21 A. No, I did not.

22 Q. Now, if we built the same cable plant and in one study we
23 use a 35 percent fill and in another study we assumed a 85
24 percent fill, haven't you assumed that I've got a lot more
25 customers on that same plant?

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- 1 A. Either a lot more customers on that same plant or on a
2 forward-looking network design a smaller amount of plant.
- 3 Q. But you didn't change the amount of plant?
- 4 A. That's correct.
- 5 Q. So implicitly you assumed that instead of, say, 35
6 customers on that 100-pair cable we now have 85?
- 7 A. That would be correct.
- 8 Q. And Cincinnati Bell's customer base isn't going to go from
9 35 to 85 overnight, is it?
- 10 A. Likely not.
- 11 Q. So in order to use a higher fill, instead of just adjusting
12 the fill, don't you actually have to redesign a smaller plant?
- 13 A. That would be one method to do it; and, again, in terms of
14 the design and how the model worked, the overall initial goal
15 that Mr. Starkey had was to recreate the LCAT to see if he could
16 recreate the Band 1 amount, and he had done that, but as you
17 point out, if you do adjust the fill, the cable plant sizing may
18 have to change, and I don't believe the model does that
19 anywhere.
- 20 Q. Okay. And would you agree with me that the cost per pair
21 foot of small cables is higher than the cost per pair foot of
22 large cables?
- 23 A. I think that's fair, yes.
- 24 Q. So there's an influence of the cable size that's going to
25 cause the cost to the plant to go up at the same time the

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1 increased fill is going to cause the cost to the plant to go
2 down?

3 (Pause.)

4 A. Generically speaking, that would be correct.

5 Q. Okay. And simply substituting the fill in this spreadsheet
6 doesn't introduce that countervailing force of the increasing
7 price of the loops, does it?

8 A. I don't believe so, no.

9 Q. There are a lot of costs that aren't even dependent on the
10 size of the cable; is that true?

11 A. Trenching would generally be the same if you're placing a
12 25-pair or a 1,000-pair cable.

13 Q. And you still need poles?

14 A. Yes.

15 Q. Now, on Page 44, Lines 14 through 17, I take it you're
16 recommending that as interim rates the Commission adopt
17 Ameritech's TELRIC rates.

18 A. That's correct. We have kind of gone through the
19 discussion of my -- or, Mr. Starkey's and then my subsequent
20 changes to the recreated LCAT model, but nowhere in the
21 testimony have we ever advocated the numbers come out of this
22 model are what should be used. That model was merely used in an
23 illustrative purpose to say if we did make changes to certain of
24 the inputs, here is how things would generally flow.

25 But you're correct, Mr. Hart, that on Page 44 there, we

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1 just recommend it on an interim basis.

2 Q. Now, did Mr. Starkey inform you that he already made that
3 recommendation in the MCI/Cincinnati Bell arbitration?

4 A. No. In fact, but for getting the model from him during the
5 entire production of my testimony, I had very little interaction
6 with him at all.

7 Q. Okay. Well, then, you weren't aware that the Commission
8 has already rejected that proposition that Cincinnati Bell use
9 Ameritech's TELRIC rates as an interim rate?

10 A. I am aware of that now. I wasn't aware of that at the time
11 this was filed.

12 Q. Okay. Would you agree with me that if interim rates are
13 adopted, that are the incorrect rates, whether they be high or
14 low, that that could send incorrect economic signals to
15 competitors?

16 A. Yeah, we discussed this in depth during the deposition, and
17 with respect to if the rates are set too low it could
18 artificially induce or stimulate competition and then when those
19 rates are trued up, should they be higher, it could be of a
20 concern.

21 My converse was to that if rates are set extremely high,
22 that competition is unlikely to ever come, and personally, I
23 think that's the most deleterious situation because right now
24 there's, from my understanding of people who fund these new
25 entrant carriers, there's a lot of desire right now to get into

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1 this market and help to fund or create a competitive local
2 exchange company. But that may disappear in the future, and so
3 if in the interim we have rates that are set too high and it
4 discourages competition, those type of fundings may dry up and
5 go elsewhere.

6 Q. Now, under your price squeeze analysis, I take it you've
7 concluded that at the rates proposed here, CoreComm would lose
8 at least \$19 a line on average?

9 A. Let me go to Exhibit 34. \$19.18, yes.

10 Q. And if we took the loop from the \$19 that's in your
11 analysis down to, say, \$8, you're still \$8 in hole, aren't you?

12 A. Yes.

13 Q. So that would still be an uneconomic proposition for
14 CoreComm, wouldn't it?

15 A. That would be, yes.

16 Q. Now, if we were to take rates down another 10 or \$12 so
17 that it was a break-even proposition, then CoreComm would enter
18 the market and then the Commission would establish permanent
19 rates that were above what would be economic, would you expect
20 CoreComm to leave the market then?

21 A. We discussed that in the deposition as well, and it was my
22 first contention that, obviously, CoreComm doesn't want to lose
23 money, and -- but I think I left it at that would be an internal
24 decision they would have to make. Obviously, CoreComm, somehow
25 is finding a way to make money or stay in business in the

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1 Ameritech service territory or they likely wouldn't be there.

2 Q. Because Ameritech has some unbundled loop rates that are
3 very low, aren't they?

4 A. Yes.

5 Q. Now, on Lines 22 and 23 you make the statement that the
6 Ameritech rates should be closer to the ultimate rates than the
7 one Cincinnati Bell is proposing, right?

8 A. Yes.

9 Q. You have absolutely no basis for saying that, do you?

10 A. If we look at a \$19 loop rate, for instance, and say we
11 have an Ameritech rate of 5 or \$6 in a particular band for a
12 loop, and the rate in this case is set to, say, 10 or \$11, then
13 that 10 or \$11 rate is closer to the 5 or 6 technician is 19;
14 that's my basis for that statement.

15 Q. When I asked you in your deposition how do you know that
16 Ameritech's rates are closer to the ultimate rates that will be
17 decided in this case that Cincinnati Bell's rates are,
18 didn't you answer, "I haven't studied that so I can't say with
19 any certainty"?

20 A. That's probably correct, yes.

21 Q. Has CoreComm established an electronic interface with
22 Cincinnati Bell yet?

23 A. I don't believe so, no.

24 Q. Do you know why it hasn't done that?

25 A. No, I do not.

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- 1 Q. How long has the agreement been in place?
- 2 A. I'm trying to think of the date. I'm not -- I don't know
3 exactly the date, so I'll say I don't know.
- 4 Q. If I represent to you it was July of 1998, does that sound
5 about right?
- 6 A. I was thinking summer of last year.
- 7 Q. So that's about nine months ago, or eight months ago?
- 8 A. Uh-huh.
- 9 Q. Do you know how long MCI has had an interconnection
10 agreement?
- 11 A. No, I do not.
- 12 Q. Let me represent to you it's the summer of 1997.
- 13 A. Okay.
- 14 Q. Do you know if they have an electronic interface
15 established?
- 16 A. No, I do not. I've never had that discussion with anyone
17 from MCI.
- 18 Q. Do you know if anybody has established an electronic
19 interface to Cincinnati Bell's operating services systems?
- 20 A. No, I do not.
- 21 Q. What's your basis for stating that Cincinnati Bell's
22 nonrecurring charges should assume that everybody is going to
23 use an electronic interface?
- 24 A. In talking to the personnel from CoreComm, they told me
25 verbatim that it's their desire to use an electronic interface,

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1 they do not want to use a fax ordering system at all.

2 Q. Do you know if the orders that Cincinnati Bell has received
3 from CLECs, how many are electronic and how many are by fax?

4 A. No, I do not.

5 Q. Do you know if CoreComm has provided Cincinnati Bell with
6 any forecasts of what it expects to purchase from Cincinnati
7 Bell?

8 A. No, I do not.

9 Q. I guess since you haven't read the agreement you don't know
10 whether it calls for that?

11 A. Correct.

12 Q. How many orders should Cincinnati Bell plan to receive?

13 A. Once again, without the information of the number of
14 competitors and their desires, that's a number I can't come up
15 with.

16 Q. And I guess for Cincinnati Bell to come up with that, they
17 would have to have somebody tell them, wouldn't they?

18 A. As you alluded to it may or may not be there in the
19 agreement with respect to if you're required to provide them a
20 forecast, if they are, that would be one method of having
21 somebody tell them.

22 Q. Do you know if an electronic interface is available today?

23 A. Anywhere?

24 Q. At Cincinnati Bell.

25 A. No, I do not.

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1 Q. Have you ever investigated that to see if it exists?

2 A. No, I haven't.

3 Q. Do you know what a local service request is?

4 A. Yes.

5 Q. What is that?

6 A. That's a form that the style of the form was created by the
7 ordering and billing forum to request local service. The style
8 is much the same as an access service request that an
9 interexchange carrier would send to a local exchange carrier to
10 purchase, say, special access or something of that nature.

11 Q. And that's a form that can be faxed in, isn't it?

12 A. Could be. When I worked for the National Exchange Carrier
13 Association, I used to have to interpret access service request
14 forms for the small, little independent companies and they would
15 fax them to me and that was a terrible process.

16 The OBF, or the Oregon Billing Forum, condensed that on to
17 a small form and people hand write those in, and by the time it
18 gets faxed to you it's especially hard to read, so although that
19 can be faxed in, I would say by faxes that if the LSR is
20 anything like the ASR, it's going to be a real difficult
21 situation.

22 Q. Do you know there are IXCs that still fax ASRs to
23 Cincinnati Bell?

24 A. If they fax them to small incumbents, I'm sure they fax
25 them to CBT as well.

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1 Q. Is there anything Cincinnati Bell can do to prevent them
2 from faxing in ASRs, or LSRs?

3 A. You can try to get them to automate the process. I know US
4 West has a system where you can send in access service requests
5 to them on an automated basis, but even with them they don't
6 always get that as well.

7 Q. And would you have any reason to doubt that Cincinnati Bell
8 has an automated system for receiving ASRs and LSRs?

9 A. I would hope they do.

10 Q. But nevertheless, people do it manually?

11 A. Yes.

12 Q. Now, shouldn't Cincinnati Bell be prepared to receive
13 manual orders, then?

14 A. Yeah, I think if Cincinnati Bell sets the tone from the
15 inception that they want these electronically and if they can
16 prove the reasons why, that a faxed order is difficult to read,
17 it takes a good deal of time to gather that order from the fax
18 machine, transport it to the individual that has to interpret
19 that, key that information in and then respond back. If that
20 can all be done electronically, number one, you're going to save
21 an awful lot of time and hopefully reduce a substantial amount
22 of error, so from that standpoint I would think that Cincinnati
23 Bell would want to work as diligently as they possibly can with
24 any people who are likely to do that to reduce costs and avoid
25 error.

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1 Q. You think Cincinnati Bell should charge the people who
2 submit manual orders for the time it takes to process them?

3 A. I doubt that they do that right now when they receive a
4 manual access service request.

5 Q. Well, I'm asking whether you think as an economic
6 proposition that's a rational thing to do.

7 A. I would say the more rational thing to do in my mind is,
8 once again, just through education and trying to work with
9 people who are submitting LSR or access service requests to try
10 to get them to do it in an automated fashion.

11 Q. Does that mean just refusing to fill the order?

12 A. I don't think that would be a viable alternative, no.

13 Q. So what are the alternatives if the other party continues
14 to fax orders?

15 A. Once again, to encourage the other party to do so on an
16 electronic basis, perhaps go out and provide some training to
17 get them to do that. That's not unusual, and I worked for the
18 National Carrier Exchange Association, used to get five to ten
19 access service requests a month to interpret from a telephone
20 company on an Indian reservation and the interexchange carriers
21 were ordering access service requests for the casinos there,
22 special access service for like quarter mania machines, and in
23 order to try to stem that tide I actually went and did some
24 training with those individuals to help them to determine that,
25 so I think education is a big part of the process.

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- 1 Q. On Page 54, Lines 6 through 9, I believe you're
2 recommending that Cincinnati Bell only charge dispatch on cases
3 that actually require dispatch; is that right?
- 4 A. On Lines 7 through 9?
- 5 Q. Yes.
- 6 A. Right.
- 7 Q. Now, should that be the same charge for everybody who has a
8 dispatch, or should we keep time and materials records and bill
9 them what they actually cause?
- 10 A. I think keeping time and materials records wouldn't be
11 TELRIC.
- 12 Q. Why not? Why would it not?
- 13 A. Because it would be very difficult to in advance try to
14 cost out, you know, different types of dispatches if we had a
15 simple, a moderate, a complex dispatch that took a lot of
16 materials, so from that standpoint --
- 17 Q. When you said it wouldn't be TELRIC, I'm trying to
18 understand why it wouldn't be TELRIC.
- 19 A. Because I would not consider that to be forward looking.
- 20 Q. Why not?
- 21 A. Once again, because it would be very difficult to determine
22 what type of dispatches you may have, and in what frequency.
- 23 Q. So it would be difficult now to predict what we're going to
24 be doing, right?
- 25 A. Yes, that's--

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1 Q. But when I actually go and do the work, isn't it pretty
2 easy to see what I actually did?

3 A. I would think so, but in terms of time reporting and
4 materials tracking, I think CBT's argued in many instances that
5 certain systems, you know, billing systems, record-keeping
6 systems are not available, and that would just certainly require
7 another one to do it that way.

8 Q. So I take it you're recommending a form of averaging here
9 so that a group of customers would be charged the same rate even
10 though they take different amounts of work?

11 A. Sure. In several instances, in all but essentially two
12 instances, I have essentially advocated a form of averaging.

13 Q. And one of those instances is interoffice dedicated
14 circuits?

15 A. That's correct.

16 Q. What's the other one?

17 A. There was two in there, the actual dedicated circuit
18 itself, and then the entrance facility.

19 Q. Okay. Why are those different than dispatch costs?

20 A. Essentially, to me, a dispatch is a dispatch. You go and
21 you do the work. Whereas, on an interoffice facility you may
22 have a two-mile ring, you may have a 12-mile ring and the costs
23 can differ greatly.

24 Same thing with the entrance facility, whether you have a
25 point to point or a multi-point entrance facility, or like

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1 two-node, two central office entrance facilities, those costs
2 would be substantially greater, as well.

3 Q. Well, don't Cincinnati Bell's cost studies propose a
4 mileage rate for interim office facilities?

5 A. Yes.

6 Q. Wouldn't that account for the distance variations you just
7 described?

8 A. Yes, but not only would that account for the distance
9 variations, but there are instances where you can, and we talked
10 about this at great length in the deposition as well, to go from
11 a -- and let's in this instance not talk about sector offices,
12 but just talk about a node office to a hub office, so we're
13 going from node A to node Z, we can travel two different paths
14 to get there, we can travel what we'll call Path A through one
15 central office into another, and there will be different costs
16 for the ring electronics on the rings you traverse on that path
17 and you would have Path B down here and there would be different
18 costs there as well.

19 Q. So you're suggesting that each one of those circuits
20 between any combination of offices should have its own rate?

21 A. Yes. I think I suggested that in the deposition as well.

22 Q. And you don't believe that would be cumbersome at all?

23 A. I believe I testified in the deposition that I think within
24 two hours' time I could develop a pricing schedule on Excel and
25 you asked me -- of course, we talked about billing systems

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1 aren't written in Excel, but I think I could do that very
2 quickly to use a look-up table to say here is node A, here is
3 node Z that I'm going to, what's the price of that. That
4 wouldn't take too much time really to do it all.

5 Q. Do you offer your services to Bellcore to supplement their
6 billing systems?

7 MR. PETRILLA: Your Honor, that's -- I don't see the
8 point of that question.

9 THE EXAMINER: Sustained.

10 BY MR. HART:

11 Q. Mr. Gose, how many different combinations of routes are
12 there between Cincinnati Bell's central offices?

13 A. On the DS1 circuit table file, as I recall there was 3,226
14 rows on or about that listed the different potential circuits.

15 Q. Should each one of those have its own price?

16 A. That's what I've advocated in the testimony.

17 Q. And you believe that's simpler to do that than it would be
18 to bill time and materials on a dispatch?

19 A. I believe it's the right way to do it.

20 Q. Is it simpler?

21 A. It may be somewhat more cumbersome. As I said before,
22 quite frankly, I don't see the difficulty in having to do that,
23 especially since when you bill for that, as you correctly
24 pointed out just a moment ago, that circuit is going to have a
25 mileage component, so you've got a variable component in that

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1 service already, so to have two variable components as opposed
2 to one; shouldn't be that much more onerous.

3 Q. Isn't the way Cincinnati Bell's proposing the rates exactly
4 the rate structure of special access circuits today?

5 A. Very much where you have the termination and the facility,
6 mileage facility.

7 Q. Do you know of anyone who charges individual prices for
8 each special access independent of the mileage?

9 A. I can't think of anyone, no.

10 Q. Now, on Page 55, the first line, you say, "disconnection
11 costs or a fiction"; see that?

12 A. Yes.

13 Q. Now, if Cincinnati Bell has sold an unbundled loop to
14 CoreComm, for example, and has cross-connected that to its cage,
15 if CoreComm informs Cincinnati Bell it no longer is going to pay
16 for that loop, won't Cincinnati Bell go and remove that
17 cross-connect?

18 A. They might. As we talked about in the deposition, they
19 could also just leave it there as well for the next
20 collocater -- I'm sorry, for the next new entrant carrier or for
21 themselves, if the loop, and let's presume it's -- well, for
22 that loop, if that customer wants to come back to Cincinnati
23 Bell, Cincinnati Bell is going to obviously go and get that loop
24 and reconnect it to their main distribution frame, likely.

25 Q. Well, say it's a second line that we have wired through to

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- 1 the house like we talked about this morning, and that customer
2 decides he no longer wants the second line. Should Cincinnati
3 Bell leave that line open?
- 4 A. I think they can shut it down in the central office.
- 5 Q. By disconnecting the jumper, right?
- 6 A. Yes.
- 7 Q. And that's a disconnection cost, isn't it?
- 8 A. While I would agree that there would be some costs
9 involved, it would be very, very minimal.
- 10 Q. It's not a fix, is it?
- 11 A. In that instance it's not, but in an instance -- that's
12 just one instance. In another instance where the line is being
13 replaced or taken to a different new entrant carrier or back to
14 Cincinnati Bell, then I would argue, yes, it is.
- 15 Q. But you're not distinguishing between those situations, you
16 want to remove all disconnection costs?
- 17 A. I don't think that's unreasonable. Once an individual
18 establishes a second line, I would think it would be very
19 infrequent an occurrence when they would want to get rid of
20 that. I think -- I've had a second line for two years now,
21 and --
- 22 Q. I'm sorry, go ahead.
- 23 A. -- and I would be very hard pressed to give it up, I've
24 come to rely on it for many uses.
- 25 Q. So the basis for your opinion is your own personal

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1 experience?

2 A. Yes. I don't have any studies to say that once a second
3 line is installed it's only removed 90 percent -- or, 10 percent
4 of the time.

5 Q. Okay. Let's go on to the subject of collocation. Would
6 you agree with me that the FCC does not require local telephone
7 companies to expand their central offices in order to create
8 collocation space?

9 MR. PETRILLA: Your Honor, I just want to interpose
10 here, when he says would you agree that the FCC does not require
11 ILECs, is he talking about a legal requirement? Is he asking
12 for a legal conclusion about what the FCC's rules require?

13 THE EXAMINER: His testimony is full of citations to
14 the FCC as well as direct quotations from the FCC order, as well
15 as opinions from other state jurisdictions, and it seems a bit
16 disingenuous that you would object on those grounds.

17 Objection is overruled.

18 If you know. If you don't know the answer, you're
19 perfectly free on any of the questions to say, "I don't know".

20 THE WITNESS: I believe I can cite to it in the FCC
21 order.

22 THE EXAMINER: That's fine. Go ahead.

23 BY MR. HART:

24 Q. Where are you?

25 A. Paragraph 606 of the Local Competition Order.

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1 Q. Okay.

2 A. Where it says, "Incumbent LECs are not required to provide
3 collocation at locations where it's not technically feasible to
4 provide virtual collocation, although space constraints are a
5 concern normally associated with physical collocation given our
6 broad reading of the term 'premises' we find that space
7 constraints could preclude virtual collocation at certain LEC
8 premises as well".

9 Q. Why don't you look at Paragraph 585, about seven lines
10 down. It says, "We further conclude that LECs should not be
11 required to lease or construct additional space to provide
12 physical collocation to interconnectors when existing space has
13 been exhausted"; is that right?

14 A. Yes.

15 Q. Now, if a central office has no space available for
16 collocation, what happens if somebody wants to collocate there?

17 A. When you say "no space", are you talking physical or
18 virtual?

19 Q. Physical.

20 A. Then the ILEC could offer them virtual collocation.

21 Q. All right. Now, if the ILEC was feeling generous and
22 decided that it would expand its building in order to make some
23 collocation space, do you think it would be appropriate for them
24 to charge the collocators what it actually cost to add that
25 space?

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1 A. Once again, I approach this entirely from a TELRIC
2 standpoint where I say I'm not interested in what it would cost
3 or what the incumbent would have to do to provide that. My
4 concern is that costing out what it would cost to provide that
5 space if it's available. And in this instance what I've said is
6 a forward-looking study should presume that. And I was going to
7 say --

8 Q. Go ahead.

9 A. -- in the deposition we talked about the likelihood that
10 the R.S. Means data might include information for -- or, might
11 include information about central offices that were designed for
12 collocation.

13 As I recall in reading some of the transcript from earlier
14 in this proceeding, that R.S. Means data, in fact, may be pretty
15 darn old with respect to central office data, and because of
16 that, I'm trying to think of the cost per square foot that
17 Mr. Mette had for that office in Kentucky, was it around 220 or
18 \$-30 a square foot, something like that, as opposed to the 135
19 that CBT used in its floor space study.

20 So whatever the case may be, you look at the difference
21 there and say wow, there's a 80 or \$90 difference between those
22 two. Well, that, I guess, 80 or \$90 difference could be
23 associated with the central office buildout charges or kind of
24 compared to the two.

25 But what I'm most interested in this entire process is not

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1 what CBT would have to do to accommodate the seventh collocator
2 when the sixth one has taken up the sixth spot, but let's cost
3 out what those six spots cost and what we can get them for.

4 Q. Well, you're way ahead of me here. My question for you is
5 in my example, where I actually do decide to add on to my
6 building, whether economically it's appropriate to charge the
7 people who are going to occupy that space the actual dollar cost
8 that it took to add that space?

9 A. And again, I'll go back to a portion of my original answer
10 stating that adding that space after the fact is not TELRIC.

11 Q. I understand that. I'm just asking you economically, in
12 your opinion, what should Cincinnati Bell charge to provide that
13 space?

14 A. I think that's irrelevant to this proceeding, so I don't
15 have an answer.

16 Q. Well, how is that different than a situation where we have
17 some space that's not occupied but it's not in a condition for
18 collocators and some construction work needs to be done; why is
19 the construction work in that situation any different than the
20 construction work to add on to my building?

21 A. Again, I am looking at this from a standpoint of what would
22 you do if you were designing a forward-looking network today,
23 and if I were to design that central office, keep it in the same
24 location where it is and design it today, you would think that
25 you would design that building to accommodate collocators.

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1 Q. How many should I design it to accommodate?

2 A. We kind of went round and round on this in the deposition
3 with respect to forecasts, querying potential people who we
4 think are there, who may in the future be there, that's a
5 decision that CBT would have to make. I have not ever been
6 involved in determining that type of information.

7 Q. Well, wouldn't that be pretty important information to know
8 before we would go out and design a building?

9 A. Yes. In fact, I'd be very interested to know what kind of
10 thought process in this new central office that was constructed
11 in Kentucky was gone -- what type of process was employed to
12 determine what type of additional space and how you would build
13 out that space for potential collocators.

14 Q. Is one thing you might consider an actual request for
15 collocation?

16 A. That's one thing you could consider, yes.

17 Q. Or even a forecast from a competitor as to how many
18 collocation areas they may choose to buy some day?

19 A. Yes.

20 Q. Has CoreComm requested any collocation from Cincinnati Bell
21 yet?

22 A. I don't believe so.

23 Q. Have they provided Cincinnati Bell with any kind of a
24 forecast of the collocation space they might want?

25 A. That I do not know.

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1 Q. Do you know if that's covered by the interconnection
2 agreement?

3 A. No, I do not.

4 Q. Well, let's say Cincinnati Bell has somehow looked into a
5 crystal ball and decided that it thinks six people will want to
6 collocate in a given office. Is it supposed to use that
7 information then to somehow price the space?

8 A. If that's deemed by Cincinnati Bell to be an accurate,
9 reasonably reliable figure, and Cincinnati Bell makes other
10 assumptions with respect to the amount of space that those
11 individuals will want and a common space or common factor, if
12 you will, for how much additional space in addition to the cage
13 area they would construct, then in a forward-looking study
14 saying we would build the building today for our central office
15 purposes, for our switches, for our digital cross-connects, DCS,
16 main distribution frame, all the equipment we need X number of
17 square feet, and then they can reasonably presume what the area
18 for collocation would be needed, then they could apply an
19 estimated cost per square foot to that total amount of square
20 footage and use that on a forward-looking basis to determine
21 collocation costs.

22 Q. Could you walk through the calculation for me; how you
23 would do that?

24 A. I think I just did.

25 Q. Put some numbers to it so that we can follow you.

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1 A. For CBT, let's say that they -- and I'm going to use small
2 numbers here just for simplicity -- that they -- well, no, I
3 won't either -- that they need 5,000 square feet of space in a
4 particular central office for all their switch gear, and that
5 5,000 square feet of space, I'm incorporating that to also
6 include things such as cable vaults, DC power generation, power
7 rectifiers, bus bars, those kind of things, so in totality 5,000
8 square feet of space.

9 And we look and say, "Okay, we forecast reasonably that
10 we'll have six collocators and each collocator will need 100
11 square feet of space", that's 600 square feet of required space
12 for collocators.

13 But obviously you need ingress and egress capability for
14 those collocators, so you would want to apply a factor, common
15 space factor to that. Let's hypothetically say that's 2.0. So
16 that would say that for that 600 space we actually -- 600 square
17 feet of space for collocators, we actually need 1,200 square
18 feet.

19 So you would add that to the 5,000 square feet for the
20 entire amount of the rest of the office and construct an office
21 of approximately 6,200 square feet. I'm sure it would be
22 somewhat more complicated than that, but that's a --

23 Q. And then do I estimate what that total building could cost?

24 A. Yes, that would be, say for instance, using the R.S. Means
25 data or something similar to it.

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1 Q. Okay. And you've suggested from your statement earlier
2 that the R.S. Means data may be pretty out of date.

3 A. That was my understanding from reading the transcripts of
4 earlier in this proceeding. I don't know that personally to be
5 true or false.

6 Q. Should actual experience of Cincinnati Bell be a better
7 guide for the cost of collocation space than the R.S. Means
8 data?

9 A. It could be, if the R.S. Means data can be shown that, you
10 know, it's the most recent data is the 1991, that could be
11 considered pretty embedded and out of date, so....

12 Q. Okay. Now, back to real life for a minute. We've got a
13 central office that physically exists and we're not going to
14 tear it down, build a new one. Doesn't Cincinnati Bell have to
15 first identify space that's available for collocation?

16 A. Yes.

17 Q. Now, let's say it has enough space to accommodate the six
18 people you say might be collocators. Is that the amount of
19 space it ought to build out for collocation?

20 A. Once again, you would want to determine -- I think in this
21 discussion we're talking about an embedded basis here. But --
22 And I'm not talking TELRIC, but on this embedded nature that
23 you're speaking of here, that's one way that they could do it.

24 Q. Well, at some point they have to actually build space,
25 right?

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1 A. Yes, but that's not the purpose of this proceeding, to cost
2 out what it actually would cost to build out that particular
3 space.

4 The purpose of this proceeding, as I understand it, is not
5 to look at things on an embedded nature, an emedded central
6 office. The purpose is to use a forward-looking methodology to
7 cost out collocation elements.

8 Q. Well, isn't TELRIC supposed to replicate the cost that you
9 expect LECs will actually incur in the future?

10 A. The TELRIC methodology as I understand it -- the
11 forward-looking costs that they would incur in the future -- and
12 when we say "forward looking", once again, we're not saying,
13 "Cincinnati Bell, build out your existing wire center to
14 accommodate collocators". The FCC orders clearly state to use
15 the land that it sits on, but from -- beyond that, construct
16 that network as if you were starting from the ground up.

17 Q. Let's maybe draw an overhead diagram. Let's say this is my
18 central office right here and I've got an area that is not
19 walled off, but this end of the building is vacant so it's
20 available if somebody wants to use it (indicating).

21 A. Understood.

22 Q. And let's say I've done my forecast, or maybe I even got
23 requests for collocation for six people, and you tell me that
24 100 feet times two, I need 1,200 feet, fair?

25 A. Sure.

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1 Q. Okay. So I map out 1,200 square feet over in this corner.
2 Don't I have to go ahead and build some walls to segregate that
3 space?

4 A. Yes, you would, but under your premise that you're talking
5 about here, you're asking us to look at an embedded central
6 office and cost out collocations based upon what is presently
7 there as opposed to looking at the construction of a new,
8 well-designed, forward-looking central office.

9 I think a good example is what we talked about with the
10 West 7th office where the only space available in the West 7th
11 office is so far away for the collocators that they can't use
12 copper jumpers; and on a forward-looking basis, that might not
13 be considered the least cost, most efficient way of doing that.

14 Q. Well, on a forward-looking basis, every central office
15 would have space available, wouldn't it?

16 A. Yes.

17 Q. But what the FCC has said is if there isn't any space
18 available, physical collocation does not have to be provided,
19 right?

20 A. Yes.

21 Q. And essentially is saying that where physical space does
22 exist, that's really the physical space that has to be used for
23 collocation, right?

24 A. But I'm trying to think, and I'm hard pressed to think
25 where it says that that can be costed based upon the embedded

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1 facility.

2 Q. I'm not even to cost yet. I'm just talking about
3 practically how do we build the space, okay?

4 Now, doesn't the FCC order essentially say you identify
5 space that's available and that's the space that you have to
6 make available for collocation?

7 A. Yes.

8 Q. Wherever it might happen to be.

9 A. Sure.

10 Q. Okay. And I'm asking you to assume in this example that
11 that space was in this end of the building (indicating). Now,
12 isn't it also true that the LEC has to build the space out so
13 that it's fit for collocation?

14 A. Yes.

15 Q. Okay. And we've done that according to a forecast that was
16 reasonable at the time it was done?

17 A. Correct.

18 Q. Now, let's assume our forecast was wrong and, in fact, ten
19 people wanted to collocate, but I only built room for six. If I
20 go ahead and build another 800 feet for those other people,
21 should I be allowed to recover my actual cost of building that
22 space?

23 A. When you say should you be allowed to recover it, how do
24 you propose to recover that?

25 Q. Well, there's -- I get bills from construction companies

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1 and they charge me to build walls and to install electricity, to
2 put lights in and so forth. Who's going to pay those bills?

3 A. Obviously as CBT has its build-out charges presented, the
4 new entrants would pay a certain portion of that.

5 Q. Okay. And isn't it fair that they do that since they're
6 the ones that want to occupy that space?

7 A. I think it would be more fair for the central office to be
8 considered on a -- on a forward-looking basis, once again,
9 designed with those folks in mind and priced out accordingly.

10 Q. Well, it was forward looking when I built my 1,200 feet,
11 right?

12 A. Right.

13 Q. Now, as soon as I do that, am I suddenly in embedded cost
14 again so that everything else I do in the future has to ignore
15 that I've already done that?

16 A. I would personally say that you've, on a forward-looking
17 basis, looked at that 1,200 square feet and you know what it
18 costs -- what a square foot of floor space costs. And if ten
19 new comers want space and CBT builds out that 800 square feet,
20 then they should continue to charge on a per-square-foot basis.

21 Q. Everybody gets the same rate?

22 A. Yes.

23 Q. Now, let's take the contrary example. Let's say I expect
24 six people to come and collocate but only three of them show up.
25 So I've built space that's big enough for six but there's only

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1 A. That's my understanding. In my testimony -- That was
2 merely meant to be illustrative for simpler math in my
3 hypothetical. In my testimony, as you probably know, I
4 recommend a 1.5, and during the deposition we kind of went
5 through the mathematics and drew that up, how I arrived at that
6 1.5.

7 Q. Do you have any source for that number?

8 A. It was just I simply sat down and drew up some cages and
9 tried to determine how much space would be needed.

10 Q. Did you consult any construction guides or any architects?

11 A. Not at all.

12 Q. Now, don't I have to design construction from -- sorry,
13 collocation space office by office?

14 A. Yes.

15 Q. On Page 57, you have a problem with ICB pricing. I'm
16 wondering how that -- how you rectify that with the requirement
17 that we have to deal with collocation office by office.

18 A. My concern with respect to ICB pricing has to do, as I have
19 stated in the deposition, with the delays that ICB pricing can
20 create for the new entrant carrier and the uncertainty that
21 results then in their business plans.

22 Q. When we say "ICB pricing", what element are you exactly
23 talking about? Is it floor space?

24 A. Yes. As I understand the floor space study, we have a rate
25 for West 7th, and then a rate for Avondale, Evendale and

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1 three. Do I apply a fill factor then?

2 A. We talked about this in the deposition. My answer was I
3 don't believe you do.

4 Q. So Cincinnati Bell has dedicated 1,200 feet to collocation
5 and it's not allowed to recover the cost of that total 1,200
6 feet, only the 600 feet that's used?

7 A. That would be my understanding, yes. In this example that
8 you have here, you still have some vacant space in the central
9 office. How's Cincinnati Bell recovering that vacant space, as
10 well?

11 Q. Well, we're not talking about that space. I'm talking
12 about the space I specifically built for collocation which is
13 now segregated from the rest of my office. Is Cincinnati Bell
14 expected to absorb that cost?

15 A. I think yes.

16 Q. And it's expected to absorb the cost of building those
17 walls?

18 A. The cost of building those walls is serving, at least in
19 your example here, three collocators.

20 Q. Is that the result the Commission came to in the Ameritech
21 case?

22 A. I couldn't tell you that.

23 Q. Now, you mentioned in your hypothetical that a two-to-one
24 ratio for common space might be used. Do you realize that's the
25 ratio that was used in the Ameritech case?

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- 1 Rossmoyne.
- 2 Q. And what's the variable between those different floor space
3 rates?
- 4 A. The high and the low?
- 5 Q. No. What factor, if any, causes the variation in rates
6 between those offices?
- 7 A. The common area factor is one.
- 8 Q. Okay. Anything else?
- 9 A. It's the building investment per square foot.
- 10 Q. Isn't that the R.S. Means \$135?
- 11 A. No, it's not. It's a different figure for all four.
- 12 Q. Where are you looking?
- 13 A. (Indicating).
- 14 Q. Well, isn't that the multiple of the common area factor and
15 the \$135?
- 16 A. Yes, that's correct.
- 17 Q. Okay. So the variable there is the common area factor, not
18 the square foot charge?
- 19 A. That's -- But the square foot charge, consequently, what I
20 was trying to say, does become variable.
- 21 Q. So the only thing you would need to know in order to
22 determine the floor space charge in a given office would be to
23 know the common area?
- 24 A. Yes.
- 25 Q. And since all these offices are, in a sense, unique, that

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1 common area factor is going to vary depending on the
2 configuration of my space, isn't it?

3 A. If you look at it on an embedded basis and say the FCC said
4 not only keep the land where it is but keep the same central
5 office, too. But if you were to, on a forward-looking basis,
6 keep the land but hypothetically build new central offices and
7 set aside a section, I would think that you could, within a
8 reasonable percentage point or two, come up with a very similar
9 common area factor which thereby then would lead to similar
10 collocation rates across all central offices. In so doing, you
11 wouldn't have to have an individual case basis for many other
12 offices.

13 Q. Well, according to the rules we were looking at, the
14 collocation space only has to be made available where it exists,
15 right?

16 A. That's correct.

17 Q. So before I can even tell you if collocation is available,
18 don't you have to tell me where you want collocation?

19 A. In the embedded network as it exists today with the -- when
20 I say "embedded", the presently existing central offices, that
21 could be the case, yes.

22 Q. Well, and that's the central offices that you're going to
23 be collocating in, isn't it?

24 A. Yes. But, once again, I'm looking at this from a
25 standpoint of I want to cost out what a square foot of floor

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1 space costs me, and in the cost studies that I have seen from
2 other incumbent local exchange companies, this is the only cost
3 study that I have ever reviewed that had a different rate for
4 every office for collocation.

5 Q. All right. Let's go back to my question now. Before I can
6 tell you if you can get collocation, don't you have to tell me
7 where you want to go?

8 A. Yes.

9 Q. And then somebody has to survey that building to see if
10 there is space available, correct?

11 A. Correct.

12 Q. And they're going to have to plan it and determine where
13 it's going to be, right?

14 A. Unless it's already there.

15 Q. And until I do those steps, you're going to have to wait
16 before you can even plan to collocate there, aren't you?

17 A. Yes, you would. But if you knew in advance at least what
18 the costs were, you could begin to development of -- develop a
19 business plan while you wait to find that out as opposed to
20 determining that you want to be in, say, a Groesbeck central
21 office -- and I don't know what the rate is -- and so I say,
22 hey, I'm curious to know whether or not you have space available
23 in the Groesbeck central office, please let me know.

24 In the interim, I can't even really begin to develop a
25 reasonable business plan until I know what that's going to cost

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1 me. But if we did this on a forward-looking basis and said the
2 cost for this central office floor space across all offices is
3 this, in some instances we may have, in some instances we don't,
4 at least you can begin that process of developing a business
5 plan.

6 Q. Now, if you had read the CoreComm interconnection
7 agreement, do you think maybe you would see what the parties
8 agreed to as far as the process for requesting and obtaining
9 collocation?

10 A. Likely that could be in there.

11 Q. And if CoreComm agreed on a schedule for that, are you
12 suggesting that this proceeding should vary that?

13 A. I'll have to answer I don't know that because I'm not
14 certain.

15 Q. All right. Do you know whether CoreComm agreed to pay
16 central office build-out charges?

17 A. No, I do not.

18 Q. Am I correct that the FCC rules allow the parties, by
19 agreement, to vary from its own rules?

20 A. I don't -- If they do, I don't know where that is in the
21 rules.

22 Q. Have you ever heard anybody doing that?

23 A. No, I don't believe I have.

24 Q. On Page 57, your first bullet point suggests that build-out
25 charges would be unnecessary under TELRIC, right?

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1 A. Yes.

2 Q. TELRIC doesn't do away with the need to build walls and
3 bring electricity to the area and so forth, does it?

4 A. No. That would be there under an embedded -- if you were
5 looking at it on an embedded basis, that would be there.

6 Q. And you can't tell us, can you, whether the R.S. Means
7 square foot guide would include money to have built a
8 collocation area and equip it with electrical connections and so
9 forth, can you?

10 A. I have not contacted R.S. Means, so I don't know that.

11 Q. And you don't even know if any of the data in the
12 R.S. Means contains a central office that was built for
13 collocation, do you?

14 A. No, I do not.

15 Q. So if there are additional costs that would be required to
16 make a building suitable for multiple tenants that aren't
17 captured in R.S. Means, it's still appropriate under TELRIC to
18 recover those costs, isn't it?

19 A. Could I ask that that question be read back, please?

20 Q. Sure.

21 (Question read back as requested.)

22 THE WITNESS: If it could be shown that -- if that 220
23 or 220 -- or \$230 of -- per square foot of investment, if that's
24 the correct figure for the Kentucky central office, was a least
25 cost, most efficient design, and that did include build-out for

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1 collocators, then I think the answer to your question is yes.

2 BY MR. HART:

3 Q. Let's assume that that Kentucky office did not include any
4 collocation. Should there be even extra expense to allow for
5 multiple tenants?

6 A. I would not object to, on a forward-looking basis, if you
7 looked at a central office and said this is what it's going to
8 cost to build it and on a least cost, most efficient basis we
9 are going to provide for collocators, and it costs X number of
10 dollars per square foot, then I think that would be appropriate.

11 Q. Have you reviewed the charges that Cincinnati Bell incurred
12 to make its central offices ready for collocation?

13 A. By that, are you referring to the large central office
14 build-out?

15 Q. Yes.

16 A. I have been through that, yes.

17 Q. Is there anything in there that you can tell us was an
18 unnecessary expense?

19 A. With respect to -- You asked me very early today whether
20 I'm an expert or have any expertise in construction, and my
21 answer was no. So from that standpoint, I -- my answers would
22 be speculation; so no.

23 Q. Okay. And let's assume that the central office was built
24 new today. Can you tell me whether any of the expenses that are
25 in the build-out charge would duplicate something that would

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1 have not been -- I'm sorry, something that would have been in
2 the basic building?

3 A. Possibly. In the basic building, for instance, you have
4 heating, air-conditioning, ventilation, and you -- to provide
5 additional capacity, you might need to add an air-conditioning
6 chiller or something of that nature that has a greater capacity,
7 so that's -- that's an example that I can think of.

8 Q. So you would need to spend more money on air-conditioning,
9 for example, for collocation than if we just built a
10 single-tenant office?

11 A. Possibly because the heat generator or the climate needed
12 for the collocators' equipment would likely demand such.

13 Q. Okay. Anything else?

14 A. Once again, not being a construction expert, I would be
15 hard pressed to give you a lot of examples.

16 Q. On bullet point No. 2 you suggested core drilling would be
17 unnecessary. Aren't there going to be more core drills in a
18 multi-tenant building than in a single-tenant building?

19 A. Yes, but once again, using this as an example, if I knew on
20 a going-forward basis, if I was going to design a central office
21 from the ground up, and I knew where I was going to put my
22 collocators, I would likely form -- and this is, once again,
23 just speculation -- but instead of doing the core drilling, you
24 might form your concrete to provide, as we talked about in the
25 deposition, chases or locations for those cable routes.

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1 And you would potentially look at all the collocation
2 arrangements that the company presently has plus a number of
3 other collocation arrangements from other companies that would
4 share that information to find out how often does a collocator
5 want a diverse route, and factor that in. And, correspondingly,
6 then, price out that new central office or cost it out as if it
7 already had those type of cable routes available.

8 Q. Well, it would cost something to put those holes in the
9 floor, wouldn't it?

10 A. Yes, but whether or not it would cost as much as it does to
11 come in and retrofit those, I -- it might or it might not.

12 Q. Well, let's say we -- we actually built a brand new
13 building and we put holes in the floor and so forth and the
14 collocators came in and asked for some more holes. Should we
15 charge them to drill those holes?

16 A. You could possibly do that. I think the better situation
17 would be to plan appropriately and make certain that you have
18 enough capacity.

19 Q. Well, plants aren't always perfect, are they?

20 A. No, they're not. And they don't always go to the extreme
21 where everything goes wrong; sometimes they go right, you would
22 have more holes than you otherwise need, as well.

23 Q. Does -- Does TELRIC require perfection from the incumbent
24 LEC?

25 A. That's not -- That language is not included in the FCC

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1 order.

2 Q. Now, in number -- bullet No. 3 you discuss the SONET system
3 in the West 7th office. Let me ask you first whether -- Do you
4 have any technical expertise to say that that was an
5 inappropriate system to build?

6 A. No, I don't, because that system may have been built for
7 other purposes other than strictly for cross-connects.

8 Q. Now, you said something earlier about the length was too
9 long for a copper cross-connect; is that right?

10 A. That was my understanding of the explanation of why that's
11 used for cross-connection purposes in that office.

12 Q. Do you understand that there are copper cross-connects in
13 the West 7th office?

14 A. That was not my understanding, no.

15 Q. Well, can you distinguish between a DS0 and a DS1
16 cross-connect? Are those different things?

17 A. Oh, yes.

18 Q. And is there any distance limitation on a DS0
19 cross-connect?

20 A. That would be a technical specification I'm not familiar
21 with.

22 Q. Might there be a distance limitation on a DS1
23 cross-connect?

24 A. Yes.

25 Q. Given the location of that collocation space, do you know

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1 of any other way that would have been more appropriate for
2 Cincinnati Bell to install cross-connects between its mainframe
3 area and the collocation area?

4 A. I have not studied what other alternatives might have been
5 available.

6 Q. Okay.

7 A. But for, I think one could consider that if the OC48 system
8 is not at capacity, and I think we had talked about this in the
9 deposition as well, where that OC48 system provides the
10 equivalent of in excess of 32,000 DS0s, and you only needed
11 1,500 DS0s of capacity for cross-connects, then an OC3 system
12 may have been equally as viable.

13 Q. Well, if the system is charged on a per-unit basis, isn't
14 an OC48 cheaper than an OC3?

15 A. If it's at capacity.

16 Q. Well, I'm asking if it's charged on a per-unit basis.
17 Aren't there economies of scale to an OC48 that don't exist in
18 an OC3?

19 A. Likely, but I have not studied that to be able to tell you
20 what they are.

21 Q. Okay. Now, are you suggesting that Cincinnati Bell should
22 charge something less than the forward-looking cost of that OC48
23 system?

24 A. If it could be shown that that OC48 system is the absolute
25 least cost, most efficient method of providing those

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1 cross-connects, then the answer would likely be no. However, if
2 it can be studied that there could be a least cost, more
3 efficient way other than the OC48, especially in a
4 forward-looking environment, then the answer could be yes.

5 Q. But you don't know of any way right now?

6 A. No, I don't.

7 Q. Do you understand that in the local competition proceeding,
8 that AT&T suggested that if collocation space wasn't physically
9 available, that the ILEC should give them free trunking into
10 that central office?

11 A. While that rings familiar, I'm trying to think, that may be
12 in the local competition order with respect to the interexchange
13 carrier -- or, the comments before the FCC made a ruling; but to
14 be able to tell you precisely where it is, I couldn't tell you
15 that.

16 Q. Why don't you look at Paragraph 605. Does that refresh
17 your recollection of that issue?

18 A. Yes, it does.

19 Q. Okay. Now, if the FCC declined to require free trunking
20 where there was no space available, are you suggesting that for
21 some reason this Commission should refuse to allow Cincinnati
22 Bell to charge something other than the actual cross-connect
23 charge where the circumstances require the collocation space to
24 be at some distance from the mainframe?

25 A. Once again, I would want to have an absolute assurance that

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1 that solution that was used was, in fact, the least cost, most
2 efficient method.

3 Q. Now, if someone wanted to collocate at West 7th Street and
4 didn't like the cross-connect charges, they have the option of
5 virtual collocation, don't they?

6 A. Yes.

7 Q. Your fourth bullet point talks about the security systems.
8 Would you agree with me that a multi-tenant building needs a
9 different type of security system than a single-tenant building?

10 A. Yes, I would agree with that, but I would preface that
11 remark by stating that security systems may be able to be
12 lessened if you built the central office from a ground-up
13 standpoint where you could avoid levels of security.

14 If I have to come through the front door, take up an
15 elevator to the third floor, past the incumbent LECs' equipment
16 and then into my collocation space, that could require a number
17 of levels of security to get in; whereas if I had ingress and
18 egress to an exterior or something of that nature, we could
19 lessen the cost of security.

20 Q. Finally in your fifth point on Page 58, you indicate that
21 you're objecting to the cost of power delivery systems. Do you
22 have any reason to doubt that Cincinnati Bell had to actually
23 spend money to extend power delivery systems to collocation
24 areas?

25 A. Likely not.

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1 Q. And even in a brand-new building, wouldn't it still need to
2 build a power delivery system that would go to a collocation
3 area?

4 A. Yes, but that could be factored in in the design of a
5 forward-looking, brand-new building, and it may be substantially
6 easier to do on that basis than in terms of retrofitting it into
7 an existing building.

8 Q. But we still need to bring the power cables and common
9 busses and grounds and so forth into the area, don't we?

10 A. Yes.

11 Q. And you wouldn't expect to see those in a single-tenant
12 building, would you?

13 A. Likely in a single-tenant building, those power delivery
14 leads, grounds, bus bars, et cetera, would be primarily just for
15 the incumbent LEC's equipment only.

16 Q. So if there's more than one company running equipment, we
17 need more than one power delivery system lead?

18 A. Yes.

19 Q. Now, I understand on Page 59 that you're recommending that
20 all of Cincinnati Bell's collocation rates be reduced for the
21 interim by a factor of 75 percent.

22 A. That's correct, but only on an interim basis.

23 Q. Could you explain to us exactly how you calculated this 75
24 percent recommendation?

25 A. I can try.

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1 Q. Go ahead.

2 A. We went over this two or three times in the deposition.

3 Q. Well, we have to do it on the record here --

4 A. I understand.

5 Q. -- because the deposition isn't the record.

6 A. I was just make -- forwarding my remarks with that just
7 to...

8 I looked at a number of the studies, and let me say that
9 there is no -- at the beginning, there is no mathematical
10 formula that gets to 75 percent. I'll just begin my remarks
11 with that.

12 But I did do an analysis of certain collocation elements,
13 and one of those collocation elements was floor space. And a
14 foot of floor space for the West 7th office was 51 percent less
15 than it was for a higher-priced office, the most expensive of
16 the four offices sampled.

17 Q. Could you give us the dollar amounts of those two?

18 A. Sure. This will be a confidential transcript, so I can do
19 that.

20 Q. Right.

21 A. Okay. The dollar amount for the West 7th was \$6.63, and
22 for the most expensive other office, that office was Avondale,
23 it was \$10.04.

24 So there's quite a difference there. And, of course, in
25 this I have advocated for floor space that I would like to see

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1 an average of one square foot charge across the board for all
2 CBT central offices, no individual case basis pricing. That's
3 one example.

4 Conduit was another example or inner duct. At the other
5 offices it was priced out to be 11 cents -- let me make sure I
6 have got that exactly correct -- and for 10 other offices or 14
7 data points it was 11 cents. So that's a difference between
8 those two of 254 percent.

9 Q. I think you said 11 cents both times.

10 A. I'm sorry. For West 7th this was 39 cents.

11 Q. Okay.

12 A. I apologize. And it was 11 cents for -- was developed on
13 an 11-cent basis for 10 other offices and 14 data points for
14 those 10 offices.

15 And a third item that I looked at was riser space. And
16 riser space was 3 cents a foot in the West 7th office, and 38
17 cents a foot in what I believe to be four other offices -- or,
18 three other offices. So that's a difference of 1,153 percent.

19 And what I did simply was look at that and say, okay, if I
20 had this on a graph and I had -- my first variation was at 50
21 percent, my next one was off the chart at 254 percent, and my
22 third rate element was way, way off the chart at 1,153 percent
23 difference and I wanted just on an interim basis, until we can
24 get through these studies and what -- I believe make some
25 corrections that are necessary on an interim basis, what should

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1 we do.

2 And I just kind of looked at that and said, "Okay, the
3 starting point is 51 percent and then it goes off the chart
4 beyond that". I merely chose the difference between 50 and 100
5 percent. I said, "Okay, 75 percent", and would apply that; once
6 again, only on an interim basis.

7 Q. And you're suggesting that that reduction be applied to all
8 of those rates?

9 A. That's correct.

10 Q. So instead of \$6.63 in the West 7th Street office, you're
11 proposing that we charge about \$1.65?

12 A. That's what I was proposing, although, as I recall in my
13 deposition, I acquiesced somewhat and said if the Commission
14 deems that to be applicable only to the higher ones and not the
15 bottom one, then that's a possibility, as well.

16 Q. So you were --

17 A. But obviously, say, for instance, if the \$6.63 is deemed to
18 be slightly more than its actual cost because an annual charge
19 factor was potentially a little high for something in that
20 nature, then, obviously, you're not going to just reduce the
21 other three offices and leave that one where it is, especially
22 if that makes the other three offices less than \$6.63.

23 Q. Well, you're suggesting that the -- I believe it was
24 Avondale that was about \$10?

25 A. That's right.

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1 Q. You would reduce that rate to 2.50?

2 A. On an interim basis, yes.

3 Q. And how much would that reflect for investment per square
4 foot?

5 A. I'd have to go back through the calculation that was made
6 for that to determine that.

7 Q. Be about \$34, wouldn't it, if you take the \$135 of
8 R.S. Means and divide that by four?

9 A. That could be.

10 Q. So you're suggesting that it's more accurate for an interim
11 basis to assume that it costs \$34 a square foot to build central
12 office space than to use the R.S. Means number of \$135?

13 A. I can't stress enough that this was absolutely intended to
14 be an interim basis only until new studies with more appropriate
15 inputs could be filed.

16 Q. Well, have you done any alternate studies to try to
17 determine what you believe would be a TELRIC rate?

18 A. I have not done that for the central office studies. It
19 would take a little bit of time but not a lot of time, but you
20 could go back through and do that by replacing, say, for
21 instance, in the floor space analysis, you could go in and
22 change the common area factor and change the annual charge
23 factor for land to make those type of adjustments, but I have
24 not done that.

25 Q. Well, wouldn't that be a more rational approach than to

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1 just slash everything by 75 percent?

2 A. Well, that's a more rational approach. I think that's the
3 final approach that we'll -- or, that should be taken. And in
4 the interim, instead of asking somebody to go through and do
5 these studies numerous times, this 75 percent recommended
6 discount factor would be easily applicable.

7 In fact, I don't have a set of prices on what the proposed
8 UNES would be based upon certain changes, even the 13 percent
9 cost of -- or, 13 percent common cost, there's not, to my
10 knowledge, a new pricing schedule that reflects that. And I
11 accept Mr. Mette's -- or, the CBT explanation that it would be
12 very difficult to go back and rerun all of those studies until
13 that occurs. This gets exactly to that same point.

14 So from that standpoint, that's why I proposed on an
15 interim basis the 75 percent.

16 Q. Well, doesn't the Commission have to act on evidence of
17 cost?

18 A. With respect to where that is in like the Local Service
19 Guidelines, I am --

20 Q. Well, could you just tell me what evidence you have that
21 the cost of collocation at any of Cincinnati Bell's offices is
22 less than Mr. Mette's study has demonstrated it to be?

23 A. Again, on a forward-looking basis, if we're going to look
24 at our central offices on a forward-looking basis, I would think
25 you would want to apply a standard common area factor across the

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1 board if you're going to redesign your central offices.

2 It might have to differ a percentage point or two from one
3 office to another based on where you're locating and how you can
4 build, but I would be very surprised if you looked at your --
5 rebuilt your buildings from a ground-up basis and you had a
6 common area factor of 2.7 percent for one building and the next
7 central office over you had a common area factor of 1.77. On a
8 forward-looking basis, I just don't think that would happen.

9 Q. Well, if we picked the Ameritech factor of 2, would I be
10 correct that all of Cincinnati Bell's offices, except for one,
11 would actually experience an increase in price?

12 A. That's correct. But if you chose an annual charge factor
13 that reflected a different cost of capital and different
14 depreciation lives, then it would be correct to say that the
15 costs for all four of these offices would go down, as well.

16 Q. Well, the cost of capital and the depreciation lives
17 aren't going to make a 50 -- or, 75 percent difference, are
18 they?

19 A. When you make those changes to the annual charge factors,
20 they could go down substantially.

21 Q. Seventy-five percent?

22 A. Perhaps not 75 percent, but perhaps in the neighborhood of
23 50 percent.

24 Q. Okay. Let's change the topic of conduit, since you raised
25 the rates, 39 cents at West 7th and 11 cents elsewhere.

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1 What evidence do you have that those are not the costs to
2 install conduit in Cincinnati Bell's offices?

3 A. I don't have any evidence that that's not the cost to
4 install conduit, but the matter that does concern me is that the
5 costs are likely, on a per-foot basis, substantially different
6 between all those offices.

7 Q. Is there a difference in characteristics between the West
8 7th office and the other offices?

9 A. Yes. It's in a more dense geographic urban area.

10 Q. It's in the middle of downtown Cincinnati surrounded by
11 streets and concrete sidewalks, isn't it?

12 A. Yes.

13 Q. Do you think it costs more to install conduit where
14 everything is concrete and streets than it might where things
15 are grassy?

16 A. That's possible, yes.

17 Q. Would that explain the difference, perhaps?

18 A. While it could explain the difference there, there are 10
19 other offices with 14 data points, as we mentioned earlier, that
20 appear to have different costs, as well. And on a
21 forward-looking basis in those areas where everything is grassy,
22 and if you were building -- or, installing that conduit on a
23 forward-looking basis, I would think that between -- I don't
24 even know what these -- where this information came from, but I
25 would think that, say, for instance, from the Hamilton to the

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1 Norwood central office locations, that if you had the ground
2 opened to put in concrete conduit, or whatever type of material
3 you were going to place, that it would -- generally, the
4 investment should be the same between those.

5 And by my looking down at the contractor costs between
6 those, it is different. Obviously, that's because that's
7 embedded data, it's what it did cost based upon each one of
8 those.

9 What I'm asking for is a forward-looking study where you
10 look and say, "Okay, on average, it costs this much to put in
11 conduit".

12 Q. Well, do you expect that in the future every construction
13 job is going to cost exactly the same?

14 A. While it may not cost exactly the same, I would think there
15 would be some relationships with respect to materials and labor
16 to install. Where the differences make -- or, possibly could
17 arise would be with respect to actually opening up the ground to
18 put that -- that plant in service. But as you have contended,
19 out in the areas where it's grassy, I would think even that
20 excavation-type work would be similar.

21 Q. Well, isn't the best predictor of future construction costs
22 the most recent experience with similar-type jobs?

23 A. That certainly could be. And that's, I guess, one piece of
24 information that's missing from the conduit study for the ten
25 other offices, is when those jobs were conducted.

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1 Q. Don't the records in that study show you exactly when they
2 were done?

3 A. The study that I have contains four pages and there's no
4 dates with respect to records.

5 Q. You have not reviewed the backup material that was supplied
6 in data requests?

7 A. I don't know that I received that.

8 Q. Well, whether you saw it or not, can you tell me what data
9 would be more appropriate to consider in predicting what future
10 conduit jobs would cost than the most recent conduit jobs that
11 are typical of what we expect to do?

12 A. One thing I would want to know from those 14 jobs would be
13 just to know if they were all conducted by the same contractor;
14 and if not, you would look to see which contractors were the
15 least cost.

16 Q. Have you done anything to try to do that?

17 A. No, I have not.

18 Q. Do you have any basis on this record in this hearing for
19 the Commission to act other than upon the evidence that
20 Mr. Mette has presented?

21 A. But for the cursory analysis I did with respect to the
22 variation among the rates, no.

23 Q. In your testimony you used the comment that Cincinnati Bell
24 had somehow gerrymandered the data on conduit. Tell me what you
25 mean by "gerrymander".

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1 A. In the deposition we kind of referred to that as a term of
2 political derivation where boundaries or data was selectively
3 gathered to arrive at a skewed result. Is that a fair
4 characterization?

5 Q. And it's a negative term, isn't it?

6 A. I didn't consider it to be negative; I just used it in the
7 context of selectively choosing information.

8 Q. Well, it suggests that somebody selectively did something
9 in order to arrive at a particular result, doesn't it?

10 A. That's one definition.

11 Q. And what evidence do you have that Cincinnati Bell
12 selectively chose conduit jobs in order to achieve a particular
13 result?

14 A. The only evidence that I was concerned with was the fact
15 that for virtually every other collocation study submitted,
16 there were four offices generally looked at; West 7th, Avondale,
17 Evendale and Rossmoyne. And all of a sudden I get to this study
18 and I have ten different central offices, only one of which is
19 one of those four, West 7th. Avondale, Evendale and Rossmoyne
20 don't even appear anywhere and we are using a different study.

21 So that was my primary concern is, wait a minute, why all
22 of a sudden have we abandoned using Avondale, Evendale and
23 Rossmoyne, which are considered essentially by CBT as good
24 surrogates to perform these collocation cost studies, and all of
25 a sudden, and in one and one study only, we have an entirely

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1 different set of offices. I was --

2 Q. What if no conduit jobs were done in recent past in those
3 offices at the time the study was done; should Cincinnati Bell
4 make up data for those?

5 A. I think if that was the case, I would have included a
6 footnote in that study with respect to that was the reason why.

7 Q. Do you have any reason to believe that the costs of the
8 conduit jobs that are included in the study are inaccurate in
9 any way?

10 A. I have -- I have no basis to assert their accuracy, no.

11 Q. Okay. And just briefly, do you have any basis for
12 disputing the evidence that Mr. Mette used in his riser space
13 study?

14 A. No, I do not.

15 Q. Now, if the Commission were to adopt your recommendation
16 that all the collocation rates be slashed by 75 percent on an
17 interim basis, and CoreComm decided then it was going to
18 collocate in a number of offices, and then we get final rates,
19 say they go back where Cincinnati Bell proposed them, would
20 CoreComm necessarily find it economical to stay in those spaces?

21 A. I think my answer would be very much the same as the answer
22 I gave with respect to this same hypothetical with the loop
23 today, is that likely they, under that scenario, would be in a
24 position where they would not be able to make money and --

25 Q. Now, if they -- if that happened and in the meantime, while

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1 they were occupying a cage, some other new entrant was denied
2 collocation space because there was none available and invested
3 in some other building somewhere, is that fair to that company?

4 A. While it may not be fair, I would be very interested to see
5 the number of times in which that would actually occur.

6 Q. Well, we haven't lowered our rates by 75 percent, have we?

7 A. Not at all.

8 Q. So we don't know if that's going to occur?

9 A. Right.

10 Q. While we're pricing things, where does it say in the FCC's
11 order in TELRIC that we shouldn't use market values of our land;
12 isn't that forward looking?

13 A. In Section 51.505 under Subparagraph b and Paragraph No. 1
14 underneath this, it talks about the efficient network
15 configuration, and it simply states that, "The total element
16 long-run incremental cost of an element should be measured based
17 on the use of the most efficient telecommunications technology
18 currently available and the lowest cost network configuration,
19 giving -- given the existing location of the incumbent LEC's
20 wire centers".

21 So the FCC has constrained these type of analyses to state
22 that you have to use the existing location of the wire center,
23 the existing land.

24 Q. And that constraint drives lots of different costs, doesn't
25 it?

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1 A. Yes. Once again, we just spoke of conduit costs. If the
2 central office did not have to be in downtown Cincinnati, but on
3 a theoretical, forward-looking basis, you say I can reconstruct
4 my network in a location one or two miles away where I don't
5 have as much concrete to put in those conduits, et cetera, not
6 only that but the piece of land that it would sit on could be
7 less expensive -- now, it might not be less expensive than the
8 historical value of that land, but given rates in urban areas,
9 that potentially could be as well.

10 Q. Well, I'm looking for where the FCC said that the cost of
11 land is something that we don't price on a forward-looking
12 basis.

13 A. I don't -- I don't think you'll find that in the order.
14 That's just kind of simply my interpretation of reading that.

15 Q. Do we have to price the buildings that sit on the land with
16 forward-looking costs?

17 A. Yes.

18 Q. But we don't price the land itself?

19 A. Because -- That's my personal consideration, is that you're
20 being forced to stay there and so you would use that.

21 I think I gave the analogy in the deposition that if the
22 FCC said you have to use the existing locations of the wire
23 centers and analog switching and you could no longer buy analog
24 switch gear, then you would have to use the embedded nature of
25 what an analog switch did cost you.

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1 Q. Well, the land's still there, we can -- we can have it
2 appraised and value it, can't we?

3 A. While that's true, once again, you're -- the land is also
4 available at other cheaper or more convenient, forward-looking
5 location.

6 Q. But the rules don't let us use that other land, do they?

7 A. No.

8 Q. One last topic on collocation. On Page 67 you comment on
9 cable pulling and splicing.

10 A. Yes.

11 Q. Do you have any evidence that the times used in that study
12 are inappropriate?

13 A. While I don't have specific evidence that the times used
14 are inappropriate, I would have liked to have seen documentation
15 with respect to a time and motion study to say it takes this
16 long to do a cable pull or a cable splice.

17 With respect to connection charges for DS1, DS3 or SONET
18 services, there were some fantastically -- fantastically
19 detailed time and motion studies with respect to all of the
20 activities that it takes to perform those connections. But
21 here, instead of a very detailed study, we merely had an
22 estimate of a few individuals, in some cases maybe even one
23 person, just estimating, "Well, yeah, I generally think it takes
24 'this long'"; and that could be right on target, or it could be
25 substantially off.

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1 So that was my concern there, is that there were no
2 detailed time and motion studies to back up those times.

3 Q. Well, in order to do a time and motion study on an
4 activity, wouldn't the activity have to take place on at least
5 more than one occasion?

6 A. I think you could look at other jobs as surrogates, if you
7 needed to, so --

8 Q. Well, those jobs have to occur for somebody to actually
9 measure them, doesn't it?

10 A. Yes. But what I'm saying is when you look at other jobs,
11 I'm talking about jobs for CBT. If CBT was going to pull its
12 own cable or do some splicing for itself, it could perform a
13 time and motion study on that and get reasonably close to what
14 it would take to do the same thing for a new entrant carrier. I
15 think I understand where your concern is, that, you know, we
16 don't have many comers with respect to these new entrant
17 carriers to study and do these type of analyses on; and if
18 that's the case, then why not just, with respect to splicing
19 cable, pulling, et cetera, follow some of the CBT craft
20 personnel around while they're doing similar CBT jobs.

21 Q. Well, you have experience with other companies around the
22 country, don't you?

23 A. With a few, yes.

24 Q. Okay. And have you looked at other people's cable pulling
25 and splicing times?

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1 A. In those particular instances, I didn't look at every
2 element or portion of the study, and I don't think I considered
3 those.

4 Q. Do you know of any telephone companies that have actually
5 done a time and motion study on cable pulling and splicing?

6 A. No, I don't, but I did see CBT's time and motion studies or
7 work steps and associated time frames with respect to
8 installation of DS1, DS3 and SONET services; and as I said
9 before, those were highly detailed.

10 Q. Those are also pretty frequent activities, aren't they?

11 A. Certainly.

12 MR. HART: Your Honor, you indicated you might want to
13 break for the day. This would be as good a time as any.

14 THE EXAMINER: Okay. All right. Let's go off the
15 record.

16

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17 (Thereupon, the hearing was adjourned at 5:15
18 o'clock p.m. on Thursday, March 18, 1999,
19 to be reconvened at 9:00 o'clock a.m. on
20 Friday, March 19, 1999.)

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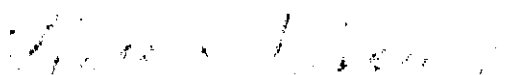
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WITNESS

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Peter Gose

Direct examination by Mr. Petrilla

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Cross-examination by Mr. Hart (continued)

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EXHIBITS

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CoreComm Exhibit No. 2 -

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Direct Testimony of Peter J. Gose

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Supplemental Testimony of Peter J. Gose

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