| 1  |  | BEFORE THE<br>DA PUBLIC SERVICE COMMISSION   |                       | 1        |                        |  |  |  |
|----|--|--|-----------------------|----------|------------------------|--|--|--|
| 2  | FLORI  | DA PUBLIC SERVICE COMMISSION   |                       |          |                        |  |  |  |
| 3  |  | DOCKET NO. 030852-TP   |                       |          |                        |  |  |  |
| 4  | In the Matter o  | of   |                       |          |                        |  |  |  |
| 5  |  | AND THE REAL PROPERTY OF THE R |                       |          |                        |  |  |  |
| 6  | MPLEMENTATION OF RI<br>RISING FROM FEDERAL   | COMMUNICATIONS   |                       |          |                        |  |  |  |
| 7  | COMMISSION'S TRIENN  | EVIEW FOR DS1,   | ,<br>▶                |          |                        |  |  |  |
| 8  | )S3 AND DARK FIBER I<br>COUTE-SPECIFIC REVID   | EW FOR DS1, DS3  | •                     |          |                        |  |  |  |
| 9  | AND DARK FIBER TRANS   | SPORT.   |                       |          |                        |  |  |  |
| 10 |  |  |                       |          |                        |  |  |  |
| 11 | ET ECTONI  | C VERSIONS OF THIS TRANSCRIPT ARE  |                       |          |                        |  |  |  |
| 12 | A CON  | VENIENCE COPY ONLY AND ARE NOT   |                       |          |                        |  |  |  |
| 13 | THE OFFICIAL TRANSCRIPT OF THE HEARING,<br>THE .PDF VERSION INCLUDES PREFILED TESTIMONY. |  |                       |          |                        |  |  |  |
| 14 |  |  |                       |          |                        |  |  |  |
| 15 |  | VOLUME 1   |                       |          |                        |  |  |  |
| 16 |  | Pages 1 through 199  |                       |          |                        |  |  |  |
| 17 |  | rages i chiodgn 199  |                       |          |                        |  |  |  |
| 18 | PROCEEDINGS:   | HEARING  |                       |          |                        |  |  |  |
| 19 | BEFORE:  | CHAIRMAN BRAULIO L. BAEZ<br>COMMISSIONER J. TERRY DEASON   |                       | -        |                        |  |  |  |
| 20 |  | COMMISSIONER LILA A. JABER<br>COMMISSIONER RUDOLPH "RUDY" BRADLEY  |                       | ₩<br>100 |                        |  |  |  |
| 21 |  | COMMISSIONER CHARLES M. DAVIDSON   | а<br>1.:              | HAR.     |                        |  |  |  |
| 22 | DATE   | Wednesday, March 3, 2004   | DOCUMENT IN 2017 DATE | Ŧ        | FPSC-CONSISSION OF EDU |  |  |  |
| 23 | TIME   | Commenced at 9:36 a.m.<br>Concluded at 9:54 a.m.   |                       | 32       | :00-:                  |  |  |  |
| 24 |  |  | DOCU                  | Φ        | FPSC                   |  |  |  |
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|    | FLOR   | IDA PUBLIC SERVICE COMMISSION  |                       |          |                        |  |  |  |

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| 1        | PLACE:    | Betty Easley Conference Center<br>Room 148 |   |
| 2        |           | 4075 Esplanade Way<br>Tallahassee, Florida |   |
| 3        |           | Tallanassee, Florida                       |   |
| 4        | REPORTER: | LINDA BOLES, RPR<br>Official FPSC Reporter |   |
| 5        |           | (850) 413-6734                             |   |
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|          |           | FLORIDA PUBLIC SERVICE COMMISSION          |   |
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|    | 3  |
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| 1  | APPEARANCES :  |
| 2  | NANCY B. WHITE, ESQUIRE, R. DOUGLAS LACKEY, ESQUIRE          |
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| 19 | Florida 32301, appearing on behalf of NuVox and NewSouth     |
| 20 | Communications Corporation.                                  |
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1 APPEARANCES CONTINUED:

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5 TRACY HATCH, ESQUIRE, 101 North Monroe Street, Suite 6 700, Tallahassee, Florida 32301-1549, appearing on behalf of 7 AT&T Communications of the Southern States, LLC.

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Tallahassee, Florida 32301-2960, appearing on behalf of MCI
WorldCom Communications, Inc.

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- 23 24

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| 1  | APPEARANCES CONTINUED:  |
| 2  | DULANEY L. O'ROARK, III, ESQUIRE, and KEN WOODS,                |
| 3  | ESQUIRE, MCI WorldCom Communications, Inc., Six Concourse       |
| 4  | Parkway, Suite 600, Atlanta, Georgia 30328, appearing on behalf |
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| 6  | NORMAN H. HORTON, JR., ESQUIRE, Messer, Caparello &             |
| 7  | Self, 215 South Monroe, Suite 701, Tallahassee, Florida         |
| 8  | 32302-1876, appearing on behalf of Xspedius.                    |
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| 10 | Parkway, Huntsville, Alabama 35802, appearing on behalf of      |
| 11 | ITC <sup>^</sup> DeltaCom.                                      |
| 12 | SCOTT KASSMAN, ESQUIRE, FDN Communications, 390 North           |
| 13 | Orange Ave., Suite 2000, Orlando, Florida 32801-1640, appearing |
| 14 | on behalf of FDN Communications.                                |
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| 17 | 30309-3574, appearing on behalf of Covad Communications         |
| 18 | Company.  |
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| 20 | JASON ROJAS, ESQUIRE, FPSC General Counsel's Office, 2540       |
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| 22 | appearing on behalf of the Commission Staff.                    |
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|    | FLORIDA PUBLIC SERVICE COMMISSION                               |
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| 20 | 126  | MBJ-E-1  | 23  | 23     |
| 21 | 127  | MBJ-E-2  | 23  | 23     |
| 22 | 128  | KWD-E-1  | 23  | 23     |
| 23 | 129  | KWD-E-2  | 23  | 23     |
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| 1  |          |            |             | EXH    | IIBITS  |           |     |        |
| 2  | NUMB     | ER.        |             |        |         |           | ID. | ADMTD. |
| 3  | IN OFFIC |            |             |        |         |           | 10. | ADMID. |
| 4  | 132      | JCF-E-1    |             |        |         |           | 23  | 23     |
| 5  | 133      | JCF-E-2    |             |        |         |           | 23  | 23     |
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|    |          |            | FLORIDA     | PUBLIC | SERVICE | COMMISSIO | N   |        |
| i  |          |            |             |        |         |           |     |        |

PROCEEDINGS 1 CHAIRMAN BAEZ: Okay. We'll call this hearing to 2 order. Mr. Teitzman, can you read the notice, please. 3 MR. TEITZMAN: Yes, Chairman. Pursuant to notice 4 5 published February 4th, 2004, this time and place has been set for a hearing in Docket Number 030852-TP. б CHAIRMAN BAEZ: Thanks. And we're going to start 7 taking appearances with staff. 8 MR. TEITZMAN: Adam Teitzman, Jeremy Susac and Jason 9 Rojas on behalf of the Florida Public Service Commission. 10 CHAIRMAN BAEZ: Okay. 11 MS. WHITE: Nancy White, Meredith Mays and Doug 12 Lackey on behalf of BellSouth Telecommunications. 13 MR. CHAPKIS: Richard Chapkis and Jennifer McClellan 14 for Verizon. 15 16 MR. WAHLEN: Jeff Wahlen and Susan Masterton on 17 behalf of Sprint. MR. MOYLE: Jon Moyle, Jr., Moyle, Flanigan Law Firm 18 on behalf of NuVox and NewSouth. 19 20 MR. McGLOTHLIN: Joe McGlothlin, McWhirter Reeves for the Florida Competitive Carriers Association. 21 22 MR. HATCH: Tracy Hatch appearing on behalf of AT&T Communications of the Southern States, LLC. 23 MR. AUGUSTINO: Steve Augustino from Kelley, Drye & 24 25 Warren on behalf of the FCCA.

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MR. SELF: Floyd Self of the Messer Law Firm 1 2 appearing on behalf of MCI, KMC, ITC^DeltaCom and Xspedius. 3 I'd also like to enter appearances for Donna Canzano McNulty, Ken Woods and Dulaney O'Roark on behalf of MCI. I'd 4 5 also like to enter an appearance for Doc Horton also on behalf 6 of Xspedius and, finally, Nanette Edwards on behalf of 7 ITC<sup>^</sup>DeltaCom. 8 MR. KASSMAN: Scott Kassman on behalf of FDN Communications. 9 10 MR. WATKINS: And Gene Watkins on behalf of Covad 11 Communications. 12 CHAIRMAN BAEZ: Is there anyone that didn't enter an 13 appearance that needs to? No? 14 Okay. We've got, what it looks like is several 15 preliminary matters. And, Mr. Teitzman, you want to fill us 16 in? 17 MR. TEITZMAN: Yes, Chairman. Yesterday, March 2nd, 18 the D.C. Circuit Court of Appeals released its decision which 19 vacated several aspects of the FCC's Triennial Review Order. 20 Commission staff conducted a status call late yesterday to 21 discuss with the parties if there was a consensus on how the 22 Commission should proceed. 23 After discussing this matter with the parties, all 24 parties have agreed to the following: One, all prefiled 25 testimony and testimony exhibits shall be moved into the record

without objection; however, all parties reserve the right to 1 2 conduct cross-examination of witnesses if further proceedings 3 are convened in this docket. Two, all hearing exhibits identified in staff's hearing exhibit list shall be moved into 4 5 the record without objection. Three, upon the conclusion of moving the aforementioned items into the record, this hearing 6 7 will be held in abeyance indefinitely. And, four, in 30 days 8 the parties have agreed to participate in an informal status 9 conference.

10 CHAIRMAN BAEZ: Thank you, Mr. Teitzman. Does that 11 constitute everyone's understanding of what was agreed upon 12 yesterday? If not, speak up. People nodding their heads. 13 That's good.

Now we can move on to the exhibits?

15 MR. TEITZMAN: Yes, Chairman. As usual, Mr. 16 Chairman, staff has compiled a list of discovery exhibits that 17we believe can be entered into the record by stipulation. In an effort to facilitate the entry of those exhibits, we've 18 compiled a chart that we've provided to all parties, the 19 20 Commissioners and the court reporter. In lieu of reading off 21 and marking each exhibit for the record, today I'd suggest that this list itself be marked as the first hearing exhibit and 22 23 that the discovery exhibits be marked thereafter in sequential order as set forth in that chart. 24

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I'd like to note that staff has also included in this

1 chart the prefiled exhibits attached to the witnesses' 2 testimony in this case. To further facilitate entry of those 3 exhibits in the record, I suggest -- I'd suggest that these 4 exhibits also be marked as set forth in the exhibit chart.

5 CHAIRMAN BAEZ: All right. Now you're going, you're 6 going to lead us through this, I guess, since you all prepared 7 the chart?

I'm prepared to go ahead. 8 MR. TEITZMAN: Yes. Mr. 9 Chairman, staff would move Exhibits 1 through 139 into the 10 record. And I'd like to note for clarification of the record 11 that Exhibits 46 through 71 are sponsored by BellSouth 12 witnesses, 72 through 99 are sponsored by Verizon witnesses, 100 by the Allegiance witness, 101 through 105 by AT&T's 13 14 witness, 106 through 125 by FCCA, 126 through 127 by KMC, 128 15 through 131 by Sprint, and 132 through 133 by Xspedius. I'd also like to note that Exhibit Number 134 is a composite 16 17 exhibit consisting of the confidential portions of all prefiled testimony. 18

Before we move on, Chairman, there are just a fewbrief corrections that we do need to address.

CHAIRMAN BAEZ: Okay.
COMMISSIONER JABER: Mr. Chairman, could I interrupt
here, and I apologize for the interruption.
CHAIRMAN BAEZ: Go ahead.

COMMISSIONER JABER: The first preliminary matter

25

with regard to the settlement by the parties on procedure --1 CHAIRMAN BAEZ: Uh-huh. 2 COMMISSIONER JABER: -- do you need a motion for 3 4 that? Because if you do, before we move into the exhibits, if you do, I can -- I'm quite willing to make that kind of a 5 motion. 6 CHAIRMAN BAEZ: Well, can you -- Mr. Melson, I 7 don't -- I was under the impression that the only, the only 8 9 vote or motion that was actually needed was to hold in 10 abeyance. If you could clear that up for us. MR. MELSON: Commissioner, I think either approach 11 would be fine. If you want to accept the stipulation of the 12 parties to admit all of the evidence and to hold in abeyance 13 and do that up front and then move the documents into the 14 15 record, that would be appropriate. 16 CHAIRMAN BAEZ: Commissioner Jaber, is that all right 17 with you? COMMISSIONER JABER: Yeah. I'm quite willing to make 18 19 such a motion to move this along. 20 COMMISSIONER DAVIDSON: Second. CHAIRMAN BAEZ: All right. A motion and a second. 21 22 All those in favor, say aye. (Unanimous affirmative vote.) 23 CHAIRMAN BAEZ: Show that motion passed unanimously. 24 MR. HATCH: Mr. Chairman, could I ask one clear 25

18

1 question?

2 CHAIRMAN BAEZ: Pardon? Oh, I'm sorry, Mr. Hatch. 3 I just want to be clear on the exhibits. MR. HATCH: 4 As part of our discussion last night, some of the CLECs had 5 raised objections to certain things that were in the original list. We just want to make sure that those were noted and that 6 7 they have been reflected in this list. 8 CHAIRMAN BAEZ: Mr. Teitzman. 9 MR. TEITZMAN: They have been noted and there will 10 be -- one of the corrections I was going to make will be 11 removing one of the items. 12 CHAIRMAN BAEZ: That's -- thanks for reminding me. 13 We had, we had interrupted you on your correction, so you can 14 go ahead and proceed and clear that up for us now. 15 MR. TEITZMAN: Okay. The first correction is ITC<sup>D</sup>eltaCom has indicated that the following portions of 16 17 Witness Brownworth's deposition are confidential. That would 18 be Page 38, Lines 20 through 24; Page 43, Lines 20 through 22 19 and 25; Page 44, Lines 5 through 8 and 13; Page 46, Lines 20 5 through 8, 13, 21 and 22; and Page 48, Lines 4 through 7. 21 Counsel for ITC^DeltaCom has indicated that they will be filing 22 a redacted copy of the transcript and the appropriate request for confidential classification. 23 24 CHAIRMAN BAEZ: Okay. And as to Mr. Hatch's 25 notation, are there any, are there any other corrections that

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1 need to be made?

2 MR. TEITZMAN: Yes, Chairman. Item 19, that would 3 address Mr. Hatch's comments. The last item listed in number 4 19, which would be BellSouth's responses to staff's second set 5 of interrogatories, Item Number 25, and CD containing copy of 6 revised BACE model in response to staff's supplemental request 7 for staff's second PODs, that item will be removed from the 8 exhibit list and also from the exhibit packets.

9

15

16

CHAIRMAN BAEZ: Okay.

10 MR. TEITZMAN: And the final correction was Item, 11 sorry, 136. It's currently listed as a late-filed deposition 12 exhibit; however, I was notified this morning that BellSouth 13 did serve its responses on March 1st. And that would, that 14 would be it for all the corrections.

CHAIRMAN BAEZ: All right.

MR. McGLOTHLIN: Mr. Chairman.

17 CHAIRMAN BAEZ: Mr. McGlothlin.

18 MR. McGLOTHLIN: I have either a correction or19 question. I'm not sure which at this point.

20 CHAIRMAN BAEZ: Okay.

21 MR. McGLOTHLIN: On Page 19 of this document, with 22 respect to the FCCA exhibits, the FCCA Witness Gary Ball 23 sponsored -- in addition to the items shown there, his prefiled 24 Exhibit 4 consisted of subparts 4A through F and his prefiled 25 Exhibit GJB-5 included parts A through G. I don't believe, if

I understand this document correctly, I don't believe that the 1 list here is complete with respect to Mr. Ball's exhibits, 2 prefiled exhibits. 3 CHAIRMAN BAEZ: I'm sorry. Did I hear you correctly? 4 5 You're saying that this list is incomplete? 6 MR. McGLOTHLIN: Unless I'm misinterpreting what I'm 7 looking at. It does not look to be a complete --CHAIRMAN BAEZ: What doesn't it -- can you repeat 8 9 again what it doesn't include? Because it may be, it may be that some of the --10 MR. McGLOTHLIN: I beg your pardon. 11 I'm told that 12 I'm looking at a prior list and that the current list does, 13 does cover this, this information. CHAIRMAN BAEZ: Oh, all right. 14 15 MR. McGLOTHLIN: I think we're okay. 16 CHAIRMAN BAEZ: You're okay, Mr. McGlothlin? 17 Mr. Self. 18 MR. SELF: Thank you, Mr. Chairman. I have what I 19 think are two corrections to the list. On Page 15, what's 20 identified there as hearing ID Number 44, the last two items on 21 that list, MCI's responses to BellSouth's second request for admissions, sixth set of interrogatories, and MCI's responses 22 23 to BellSouth's fifth set of interrogatories, those are actually from the 030851 docket, not this docket. So those should be 24 25 removed from this list. BellSouth only served 1 through 4 in

1 terms of interrogatories in this docket.

CHAIRMAN BAEZ: And if I can get confirmation from,
from staff. Are you running that down?

4 MR. TEITZMAN: I'm comfortable with what Mr. Self has 5 stated. I certainly can quickly check; however, I think we can 6 proceed. We can make those corrections.

CHAIRMAN BAEZ: All right.

8 MR. SELF: And, Mr. Chairman, one other thing that 9 I've been advised of, on Page 11, Item 33, which is the deposition transcript of Lonnie Hardin, I've just been told 10 11 that parts of that may be confidential. We have not had a 12 chance to review the entire transcript yet, and so I'd like to 13 reserve the ability, like we did with ITC^DeltaCom, no later 14 than tomorrow, if we identify that parts of that are 15 confidential, to file the appropriate paperwork to, or redacted 16 copy and request for confidentiality.

CHAIRMAN BAEZ: Okay.

MR. SELF: Thank you.

19 CHAIRMAN BAEZ: That will be fine.

20 Mr. Kassman.

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MR. KASSMAN: Yes. Mr. Chairman. FDN would like to point out two typographical errors on Page 9 of the document. Items Number 7 and 8 make reference to intermedia. That reference should actually be the word "interrogatory," I think. As it was listed, it was -- as we filed the exhibit, it was

"INT.," so that should be interrogatory rather than Intermedia. 1 2 CHAIRMAN BAEZ: By golly, I think you're right. 3 Okay. 4 MR. KASSMAN: Thank you. CHAIRMAN BAEZ: Anything else? Hello. Sorry. Any 5 6 other corrections? All right. Seeing none, now I'm showing --7 just to make sure we haven't added anything, I'm showing 8 Exhibits 1 through 139 --9 MR. TEITZMAN: That is correct. 10 CHAIRMAN BAEZ: -- as corrected. And with the correction, the corrected documents, any that are necessary to 11 follow. Without objection, we'll move Exhibits 1 through 139 12 into the record. 13 14 (Exhibits 1 through 139 marked for identification and 15 admitted into the record.) 16 CHAIRMAN BAEZ: Now we can move to the prefiled 17 testimony? 18 MR. TEITZMAN: Yes, Chairman. 19 CHAIRMAN BAEZ: Okay. 20 MR. TEITZMAN: In an effort to assist in moving the 21 testimony into the record, staff has prepared a second chart 22 this morning that has been provided to all the parties, the court reporter and the Commissioners. The chart sets forth the 23 testimony that has been prefiled in this matter, and staff 24 offers to move the prefiled testimony into the record as though 25

23

|    | 24  |
|----|---|
| 1  | read in accordance with and in the order set forth on the                   |
| 2  | charts. But we'd like to clarify for purposes of the record                 |
| 3  | that the testimony of the witnesses identified in 1 through 19              |
| 4  | is proffered by BellSouth oops, that's not 1 through 19. I                  |
| 5  | apologize. 1 through 9. I apologize. 1 through 9 is                         |
| 6  | proffered by BellSouth, 10 through 13 by Verizon, 14 by                     |
| 7  | Allegiance, 15 and 16 by AT&T, 17 through 19 by FCCA, 20 by                 |
| 8  | FDN, 21 by ITC <sup>^</sup> DeltaCom, 22 by KMC, 23 by MCI, 24 by NewSouth, |
| 9  | and 25 through 25 through 27 by Sprint and 28 by Xspedius.                  |
| 10 | CHAIRMAN BAEZ: Okay. And are there any corrections                          |
| 11 | that Mr. Wahlen.  |
| 12 | MR. WAHLEN: Thank you, Mr. Chairman. Mr. Dickerson                          |
| 13 | did not file direct testimony, so the one identified as Number              |
| 14 | 25 does not need to be on the list. He filed rebuttal and                   |
| 15 | surrebuttal.  |
| 16 | CHAIRMAN BAEZ: Okay. Any other corrections?                                 |
| 17 | MR. TEITZMAN: Chairman, if I may. I believe the                             |
| 18 | problem there is did Mr. Dickerson file direct testimony in                 |
| 19 | 851?  |
| 20 | MR. WAHLEN: Yes, he did.  |
| 21 | MR. TEITZMAN: What I think occurred there is the                            |
| 22 | testimony of Dickerson has been, was filed in 851 and 852. So               |
| 23 | I have no problem removing that from the list and not moving it             |
| 24 | into the record. However, you may want to take note that the                |
| 25 | direct testimony of Kent Dickerson was filed in both dockets.               |
|    |   |

|    | 25  |
|----|---|
| 1  | MR. WAHLEN: We just need the surrebuttal and                    |
| 2  | rebuttal in this.   |
| 3  | MR. TEITZMAN: Right. It's not a problem removing                |
| 4  | that from the list.   |
| 5  | MR. WAHLEN: I'm sorry if we confused you. We may                |
| 6  | have confused everyone, including ourselves. I apologize.       |
| 7  | CHAIRMAN BAEZ: It won't be the first time,                      |
| 8  | Mr. Wahlen, so don't feel too bad. I'm only speaking for        |
| 9  | myself.   |
| 10 | All right. Show that correction noted, that the item            |
| 11 | identified as Number 25 on this list that we're working off of  |
| 12 | is removed. I guess that's representing the direct testimony    |
| 13 | of Kent W. Dickerson. Otherwise, we'll show the, the entirety   |
| 14 | of this list, the prefiled testimony we'll move into the record |
| 15 | as though read without objection.                               |
| 16 |   |
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| 25 |   |
|    | FLORIDA PUBLIC SERVICE COMMISSION                               |
|    |   |

#### PUBLIC DISCLOSURE VERSION

| 1  |    | ON BEHALF OF BELLSOUTH TELECOMMUNICATIONS, INC.                                    |
|----|----|--|
| 2  |    | DIRECT TESTIMONY OF ANIRUDDHA (ANDY) BANERJEE, Ph.D.                               |
| 3  |    | <b>BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION</b>                                |
| 4  |    | <b>DOCKET NO. 030852-TP</b>  |
| 5  |    | <b>DECEMBER 22, 2003</b>   |
| 6  | I. | INTRODUCTION AND SUMMARY   |
| 7  | Q. | PLEASE STATE YOUR NAME, BUSINESS ADDRESS, AND CURRENT                              |
| 8  |    | POSITION.  |
| 9  |    |  |
| 10 | A. | My name is Aniruddha (Andy) Banerjee. I am a Vice President at NERA Economic       |
| 11 |    | Consulting located at One Main Street, Cambridge, Massachusetts 02142.             |
| 12 |    |  |
| 13 | Q. | PLEASE DESCRIBE YOUR EDUCATIONAL, PROFESSIONAL, AND                                |
| 14 |    | BUSINESS EXPERIENCE.   |
| 15 |    |  |
| 16 | A. | I earned a Bachelor of Arts (with Honors) and a Master of Arts degree in Economics |
| 17 |    | from the University of Delhi, India, in 1975 and 1977 respectively. I received a   |
| 18 |    | Ph.D. in Agricultural Economics from the Pennsylvania State University in 1985,    |
| 19 |    | and subsequently served there as an Assistant Professor of Economics. I have over  |
| 20 |    | eight years of experience teaching undergraduate and graduate courses in various   |
| 21 |    | fields of Economics, and have conducted academic research that has led to several  |
| 22 |    | publications and conference presentations.   |

| 1  | Since 1988, I have held various positions in the telecommunications industry. Prior   |
|----|---|
| 2  | to my present position, I have been an economist in the Market Analysis &             |
| 3  | Forecasting Division at AT&T Communications in Bedminster, NJ, a Member of            |
| 4  | Technical Staff at Bell Communications Research in Livingston, NJ, and a Research     |
| 5  | Economist at BellSouth Telecommunications in Birmingham, AL. In these                 |
| 6  | positions, I was responsible for conducting economic and market analysis, building    |
| 7  | quantitative demand models for telecommunications services, developing economic       |
| 8  | positions and strategies, and providing expert testimony support on regulatory        |
| 9  | economic matters.   |
| 10 |   |
| 11 | In my present capacity, I provide quantitative and regulatory economic analysis for   |
| 12 | telecommunications industry clients principally on matters of concern to local        |
| 13 | exchange carriers. I have testified before state and federal regulators on            |
| 14 | interconnection and unbundling, universal service, local and long distance            |
| 15 | competition, efficient rate rebalancing, and inter-carrier compensation. I have       |
| 16 | participated in several proceedings on antitrust damage issues, price and alternative |
| 17 | regulation, and telephone company mergers. I have published several papers and        |
| 18 | made several presentations at international forums on topics such as telephone        |
| 19 | service quality performance, mobile telephony growth, telecommunications              |
| 20 | privatization, and Internet economics. My curriculum vita is attached to this         |
| 21 | testimony as Exhibit  |
| 22 | AXB-1.  |
| 23 |   |



| 1  | Q. | HAVE YOU TESTIFIED PREVIOUSLY BEFORE THE FLORIDA PUBLIC                              |
|----|----|--|
| 2  |    | SERVICE COMMISSION?  |
| 3  |    |  |
| 4  | A. | Yes. I have testified before the Florida Public Service Commission ("Commission")    |
| 5  |    | in a number of proceedings, most recently in the "rate rebalancing" proceeding       |
| 6  |    | (Docket Nos. 030961-TL, 030867-TL, 030868-TL, and 030869-TL).                        |
| 7  |    |  |
| 8  | Q. | WHAT IS THE PURPOSE OF YOUR DIRECT TESTIMONY?  |
| 9  |    |  |
| 10 | A. | In my Direct Testimony, I present evidence based on the potential deployment test    |
| 11 |    | for determining whether or not competitive local exchange carriers ("CLECs") are     |
| 12 |    | impaired without access to an incumbent local exchange carrier's ("ILEC's")          |
| 13 |    | unbundled network elements ("UNEs"). This test is prescribed by the Federal          |
| 14 |    | Communications Commission ("FCC") for circumstances in which specific                |
| 15 |    | "triggers"-signifying actual competitive availability of the desired UNEs-do not     |
| 16 |    | exist. My testimony covers issues 4,6,13, and 19.                                    |
| 17 |    |  |
| 18 | Q. | WHAT ARE YOUR PRINCIPAL CONCLUSIONS?   |
| 19 |    |  |
| 20 | A. | Upon applying the potential deployment test to loops and transport facilities in     |
| 21 |    | BellSouth's service territory in Florida, I find that CLECs are not impaired without |
| 22 |    | access to BellSouth's unbundled loops in 387 customer locations, and CLECs are not   |

## NERA

- 1 impaired without access to BellSouth's transport facilities on 91 routes. 2 3 O. ARE THESE CUSTOMER LOCATIONS AND ROUTES INCREMENTAL TO THOSE ALREADY INCLUDED IN THE TRIGGERS ANALYSIS? 4 5 6 A. The routes identified in the potential deployment test are incremental to those 7 included in the triggers analysis. However, because of differences in building-8 address conventions, it is possible that - despite best efforts - some overlap may 9 remain between the customer locations identified in the potential deployment test and in the triggers analysis. Any overlap should not, however, be considered 10 11 particularly significant because the customer locations in that overlap would already 12 qualify for relief under the triggers analysis. 13 14 II. POTENTIAL LOOP DEPLOYMENT Issue 4: If neither the self-provisioning nor the wholesale triggers for DS3 loops is 15 16 satisfied at a specific customer location, using the potential deployment criteria 17 specified in §51.319(a)(5)(ii), what evidence of non-impairment for a DS3 loop at a specific customer location exists? Is this evidence sufficient to conclude that there is 18 19 no impairment at a specific customer location?
- 20

#### NERA

| 1  | Iss         | ue 6: If the self-provisioning trigger for dark fiber loops is not satisfied at a      |
|----|-------------|--|
| 2  | spe         | cific customer location, using the potential deployment criteria specified in          |
| 3  | <b>§5</b> ] | .319(a)(6)(ii), what evidence of non-impairment for dark fiber loops at a specific     |
| 4  | cus         | tomer location exists? Is this evidence sufficient to conclude that there is no        |
| 5  | im          | pairment at a specific customer location?  |
| 6  |             |  |
| 7  | Q.          | PLEASE DESCRIBE THE FCC'S POTENTIAL DEPLOYMENT TEST FOR                                |
| 8  |             | IDENTIFYING CUSTOMER LOCATIONS WHERE CLECS ARE NOT                                     |
| 9  |             | IMPAIRED WITHOUT ACCESS TO UNBUNDLED LOOPS FROM THE                                    |
| 10 |             | ILEC?  |
| 11 |             |  |
| 12 | A.          | For DS3 and dark fiber, the FCC's Triennial Review Order <sup>1</sup> allows state     |
| 13 |             | commissions to analyze "whether [a] particular customer location could be              |
| 14 |             | economically served by competitive carriers through deployment of alternative loop     |
| 15 |             | transmission facilities" even if the location does not meet the triggers test provided |
| 16 |             | by the FCC. <sup>2</sup>   |
| 17 |             |  |
| 18 |             | The FCC requires that, in conducting such an analysis, a state must consider and may   |

<sup>1</sup> FCC, In the Matter of Review of the Section 251 Unbundling Obligations of Incumbent Local Exchange Carriers, CC Docket No. 01-338, Implementation of the Local Competition Provisions of the Telecommunications Act of 1996, CC Docket No. 96-98, and Deployment of Wireline Services Offering Advanced Telecommunications Capability, CC Docket No. 98-147, Report and Order and Order on Remand and Further Notice of Proposed Rulemaking ("Triennial Review Order"), released August 21, 2003.

<sup>2</sup> Triennial Review Order, at ¶335.

| 1  | also find no impairment at a particular customer location even when this trigger has                |
|----|---|
| 2  | not been facially met if the state commission finds that no material economic or                    |
| 3  | operational barriers at a customer location preclude competitive LECs from                          |
| 4  | economically deploying loop transmission facilities to that particular customer                     |
| 5  | location at the relevant loop capacity level. In making a determination that                        |
| 6  | competitive LECs could economically deploy loop transmission facilities at that                     |
| 7  | location at the relevant capacity level, the state commission must consider various                 |
| 8  | factors affecting the ability to economically deploy at that particular customer                    |
| 9  | location. These factors include: evidence of alternative loop deployment at that                    |
| 10 | location; local engineering costs of building and utilizing transmission facilities; the            |
| 11 | cost of underground or aerial laying of fiber or copper; the cost of equipment needed               |
| 12 | for transmission; installation and other necessary costs involved in setting up service;            |
| 13 | local topography such as hills and rivers; availability of reasonable access to rights-             |
| 14 | of-way; building access restrictions/costs; availability/feasibility of similar                     |
| 15 | quality/reliability alternative transmission technologies at that particular location. <sup>3</sup> |
| 16 |   |
|    |   |

# 17 Q. WHAT IS THE PURPOSE OF BELLSOUTH'S POTENTIAL DEPLOYMENT 18 ANALYSIS?

19

A. The purpose of BellSouth's potential deployment analysis for loops is to identify
locations that do not meet the triggers, but which "could be economically served by

<sup>3</sup> Id.

#### NERA

1 competitive carriers" when the criteria described above are examined. As I show 2 below, 387 such locations have been identified in BellSouth's service territory in 3 Florida. 4 5 **O. HOW MANY CLECS ARE REQUIRED TO "ECONOMICALLY SERVE A** 6 LOCATION?" 7 8 In the self-provisioning trigger analysis described above, the Triennial Review Order A. 9 sets two CLECs as the lower threshold for competitive supply that would be 10 sufficient for non-impairment. Therefore, I assume that a minimum of two CLECs is 11 also required in my potential deployment analysis. That is, if one actual CLEC 12 currently serves a location, to establish non-impairment it would only require the 13 demonstration that one more CLEC could potentially deploy loop facilities to that location. If no actual CLEC currently serves that location, then it would be necessary 14 15 to demonstrate that two CLECs would potentially be able to deploy loop facilities. This methodology allows me to take into account "evidence of alternative loop 16 17 deployment at that location," as the Triennial Review Order requires. 18 19 **O. PLEASE DESCRIBE BELLSOUTH'S POTENTIAL DEPLOYMENT** 20 ANALYSIS AT A CONCEPTUAL LEVEL.

21

22 A. BellSouth's potential deployment analysis investigates the economic attractiveness

#### NERA

| 1  | to CLECs of deploying fiber-based loop facilities to additional customer locations        |
|----|---|
| 2  | where they may not have such facilities at the present time. The financial viability of   |
| 3  | extending fiber to an additional location is determined using a net present value         |
| 4  | ("NPV") test, as prescribed by the Triennial Review Order (fn. 260). That is, with a      |
| 5  | positive NPV, it is economically rational for a carrier to deploy fiber to that location, |
| 6  | as the potential revenue exceeds the potential cost. The "revenue" in this case is        |
| 7  | derived from the portion of end-user spending that a CLEC could capture by serving        |
| 8  | a particular location. The "cost" comprises the expenses that the CLEC would incur        |
| 9  | (both upfront and on an ongoing basis) to extend its network by deploying fiber to        |
| 10 | the additional location from its nearest current "fiber node," i.e., a currently          |
| 11 | collocated wire center or facilities-served building.                                     |

12

## 13 Q. HOW DO YOU CALCULATE THE REVENUE OPPORTUNITY PER14 BUILDING?

15

A. I use data from TNS Telecoms, a third-party data source that provides an estimate of
wireline telecommunications spending per tenant for business locations nationwide.
For each building located in BellSouth's service territory in Florida, I sum the
spending of all tenants in that building to get an estimate of the total end-user
spending per building.

- . .
- 22



#### 1 **O. DO YOU BELIEVE THAT TNS TELECOMS IS AN ACCURATE SOURCE** 2 **OF DATA ON TELECOMMUNICATIONS SPENDING?** 3 4 A. Yes. TNS Telecoms is the leading market research firm for site-specific demand for 5 telecommunications services. In the context of universal service, the FCC, AT&T, 6 MCI, and many other companies have relied on TNS Telecoms to estimate the exact 7 locations of business and voice lines. Moreover, a comparison of revenue estimates 8 from TNS Telecoms with national revenue estimates made by J.P. Morgan confirms 9 that the estimated spending reported by TNS Telecoms is reasonable and even a little 10 conservative (about 10% lower). 11 12 Q. HOW DO YOU DETERMINE THE COST TO DEPLOY LOOP FACILITIES 13 **PER BUILDING?** 14 15 A. This calculation proceeds in two steps. First, I determine the length of the fiber 16 facilities that a carrier would have to deploy in order to connect a building to its 17 network. Next, I determine the costs of installing and providing service over such a 18 facility. 19 20 21 22



# Q. HOW DO YOU DETERMINE THE LENGTH OF THE FIBER LOOP THAT A CLEC NEEDS TO EXTEND ITS FACILITIES TO A CUSTOMER LOCATION?

4

5 A. The determination of the length of the fiber loop requires the creation of two tables. 6 The first table contains, for each CLEC, information on every building and wire 7 center currently connected by its self-deployed fiber. This is the same information 8 (compiled from discovery and BellSouth's internal data) that is used by BellSouth 9 witness Shelly Padgett in her Direct Testimony in this proceeding to conduct the 10 triggers tests for unbundled loop and transport facilities. BellSouth's internal records 11 and standard address-matching software provide the "V&H coordinates," or latitude 12 and longitude, for every building and wire center.

13

The second table contains all buildings in the TNS Telecoms database that are associated with at least \$5,000 of estimated retail wireline spending per month (this minimum spending threshold is a conservative "filter" that is applied to make the table smaller and, therefore, more manageable). This file also includes the latitude and longitude for each building, as provided by TNS Telecoms.

19

Given the two tables, a simple program in Microsoft Excel and Visual Basic is used to determine, for every building in the second table, the two CLECs that have the nearest "fiber nodes," defined as the buildings or wire centers where they have already deployed fiber (as listed in the first table). Distance between the building

#### NERA

| 1   |    | under consideration for potential deployment and the nodes is calculated as the      |
|-----|----|--|
| 2   |    | North/South right angle distance, which generally overestimates the distance because |
| 3   |    | a more direct route can usually be found. The specific formula used for this purpose |
| 4   |    | is described in the FCC's rules in 47 CFR Section 73.208(c).                         |
| 5   |    |  |
| 6   | 0  | HOW DO YOU DETERMINE THE COST FOR A CLEC TO EXTEND LOOP                              |
|     | Q. |  |
| 7   |    | FACILITIES TO A CUSTOMER LOCATION?   |
| 8   |    |  |
| 9   | A. | The necessary elements to construct the loop and the cost of each such element are   |
| 10  |    | presented in the Direct Testimony of BellSouth witness Wayne Gray in this            |
| 11  |    | proceeding. I rely upon Mr. Gray's evidence to establish the physical cost of the    |
| 12  |    | loop in my analysis.   |
| 13  |    |  |
| 5 A | 0  | WILLE ADDITIONAL COSTS DO VOU CONSUDERS  |
| 14  | Q. | WHAT ADDITIONAL COSTS DO YOU CONSIDER?   |
| 15  |    |  |
| 16  | A. | I consider four other types of cost that CLECs incur to serve customers: (1) cost of |
| 17  |    | goods sold (COGS), (2) other network costs (i.e., not including the loop which was   |
| 18  |    | already covered above), (3) sales and marketing (S), and (4) general and             |
| 19  |    | administrative (G&A).  |
| 20  |    |  |
| 21  |    | I use the BellSouth Analysis of Competitive Entry ("BACE") model for business        |
|     |    |  |



| 11 | О. | HAVING DETERMINED THE REVENUES AND COSTS, HOW DO YOU                                       |
|----|----|--|
| 10 |    |  |
| 9  |    | voice service (15% of revenue) and remaining services (28.5% of revenue). <sup>6</sup>     |
| 8  |    | be 27.4% of revenue, obtained as a weighted average of G&A costs for long distance         |
| 7  |    | business customers with other gross customer additions. Finally, G&A is assumed to         |
| 6  |    | incurred on an ongoing basis as the CLEC offsets the churn of 20% per year for             |
| 5  |    | costs of establishing service to a customer. In addition, sales and marketing cost is      |
| 4  |    | Sales cost is incurred in year zero (the first year of operations), along with other       |
| 3  |    | Sales and marketing cost is assumed to be ******** times the monthly revenue. <sup>5</sup> |
| 2  |    | Based on this model, COGS and other network costs combined are 25% of revenue.             |
| 1  |    | customers with four or more lines to determine COGS and other network costs. <sup>4</sup>  |

## 12 CALCULATE THE NPV OF THE DEPLOYMENT?

- 13
- 14 A. The NPV is calculated in the standard way from the after-tax cash flows, assuming
- 15 that all capital expenditures are made in year zero and depreciate over 10 years and
- 16 using the tax and cost of capital assumptions that were filed in Docket No. 030851-
- 17 TP. That is:
- 18 1. Calculate the required capital expenditure in year zero.



<sup>&</sup>lt;sup>4</sup> See Direct Testimony of James Stegeman in Docket No. 030851-TP (the proceeding that considers whether there is impairment for the switching UNE).

<sup>&</sup>lt;sup>5</sup> See Direct Testimony of Debra Aron in Docket No. 030851-TP.

<sup>&</sup>lt;sup>6</sup> See Direct Testimony of Debra Aron in Docket No. 030851-TP.

| 1                                      |    | 2.                                  | Calculate the annual depreciation and the resulting depreciation tax-shield using  |
|--|----|-------------------------------------|--|
| 2                                      |    |                                     | an average tax rate of 39%.  |
| 3                                      |    | 3.                                  | Calculate network-operating expenses, including COGS and SG&A.   |
| 4                                      |    | 4.                                  | Calculate pre-tax operating income by subtracting network operating expenses   |
| 5                                      |    |                                     | from revenue.  |
| 6                                      |    | 5.                                  | Calculate after-tax operating income and, hence, cash flows (by adding the   |
| 7                                      |    |                                     | depreciation tax shield).  |
| 8                                      |    | 6.                                  | Calculate the 10-year NPV, using the mid-year convention for cash flows and a  |
| 9                                      |    |                                     | discount rate of 10.8%. To be conservative, I do not assume any continuing   |
| 10                                     |    |                                     | value beyond the 10-year period.   |
| 1 1                                    |    |                                     |  |
| 11                                     |    |                                     |  |
| 11                                     | Q. | Н                                   | OW DO YOU SELECT THE BUILDINGS THAT SATISFY THE  |
|  | Q. |                                     | DW DO YOU SELECT THE BUILDINGS THAT SATISFY THE<br>DTENTIAL DEPLOYMENT TEST?   |
| 12                                     | Q. |                                     |  |
| 12<br>13                               | Q. | PC                                  |  |
| 12<br>13<br>14                         |    | <b>PC</b><br>Th                     | DTENTIAL DEPLOYMENT TEST?  |
| 12<br>13<br>14<br>15                   |    | PC<br>Th<br>sor                     | <b>DTENTIAL DEPLOYMENT TEST?</b><br>e buildings that satisfy the potential deployment test are those with NPV $> 0$ at   |
| 12<br>13<br>14<br>15<br>16             |    | PC<br>Th<br>sor                     | <b>DTENTIAL DEPLOYMENT TEST?</b><br>e buildings that satisfy the potential deployment test are those with $NPV > 0$ at me assumed market share. To be conservative, I assume that any building that  |
| 12<br>13<br>14<br>15<br>16<br>17       |    | PC<br>Th<br>son<br>rec<br>to        | <b>DTENTIAL DEPLOYMENT TEST?</b><br>e buildings that satisfy the potential deployment test are those with NPV $> 0$ at<br>me assumed market share. To be conservative, I assume that any building that<br>puires the CLEC to achieve a market share of 15% or less for the loop deployment   |
| 12<br>13<br>14<br>15<br>16<br>17<br>18 |    | PC<br>Th<br>son<br>rec<br>to<br>co: | <b>DTENTIAL DEPLOYMENT TEST?</b><br>e buildings that satisfy the potential deployment test are those with NPV $> 0$ at<br>me assumed market share. To be conservative, I assume that any building that<br>puires the CLEC to achieve a market share of 15% or less for the loop deployment<br>yield a positive NPV satisfies the potential deployment test. This assumption is |

| 1  | Q.   | BASED ON THE ANALYSIS THAT YOU HAVE JUST DESCRIBED,                                    |
|----|------|--|
| 2  |      | WHICH CUSTOMER LOCATIONS SATISFY THE POTENTIAL   |
| 3  |      | DEPLOYMENT TEST FOR NON-IMPAIRMENT WITH RESPECT TO                                     |
| 4  |      | LOOPS AND DARK FIBER?  |
| 5  |      |  |
| 6  | A.   | Exhibit AXB-2 shows the list of customer locations that satisfy the test for potential |
| 7  |      | deployment of fiber-based facilities. These buildings therefore meet the test for      |
| 8  |      | potential deployment of dark fiber and DS3 loops, and I conclude that there is no      |
| 9  |      | impairment for these facilities at the locations on that list.                         |
| 10 |      |  |
| 11 | Q.   | ARE YOU SUBMITTING THE FINAL LIST OF BUILDINGS THAT                                    |
| 12 |      | QUALIFY FOR UNBUNDLING RELIEF ON THE BASIS OF THE                                      |
| 13 |      | POTENTIAL DEPLOYMENT TEST?   |
| 14 |      |  |
| 15 | A.   | No. BellSouth reserves the right to change the list of buildings after receiving       |
| 16 |      | responses to additional discovery requests.  |
| 17 |      |  |
| 18 | III. | POTENTIAL TRANSPORT DEPLOYMENT   |
| 19 | Issi | ae 13: If neither the self-provisioning nor the wholesale triggers for DS3 level       |
| 20 | ded  | licated transport is satisfied along a route, using the potential deployment criteria  |
| 21 | spe  | cified in §51.319(e)(2)(ii), what evidence of non-impairment for DS3 level             |
| 22 | dec  | licated transport on a specific route exists? Is this evidence sufficient to conclude  |
|    |      | NERA<br>Increases Consultance  |

| 1  | tha  | t there is no impairment along this route?   |
|----|------|--|
| 2  |      |  |
| 3  | Iss  | ue 19: If neither the self-provisioning nor the wholesale triggers for dark fiber              |
| 4  | tra  | nsport is satisfied along a route, using the potential deployment criteria specified           |
| 5  | in § | 51.319(e)(3)(ii), what evidence of non-impairment for dark fiber on a specific                 |
| 6  | rou  | te exists? Is this evidence sufficient to conclude that there is no impairment                 |
| 7  | alo  | ng this route?   |
| 8  |      |  |
| 9  | Q.   | PLEASE DESCRIBE THE FCC'S POTENTIAL DEPLOYMENT TEST FOR  |
| 10 |      | IDENTIFYING ROUTES WHERE CLECS ARE NOT IMPAIRED  |
| 11 |      | WITHOUT ACCESS TO UNBUNDLED TRANSPORT FROM THE ILEC.   |
| 12 |      |  |
| 13 | A.   | For DS3 and dark fiber, the Triennial Review Order allows state commissions to                 |
| 14 |      | analyze the "potential ability of competitive LECs to deploy transport facilities along        |
| 15 |      | a particular route" even if the route does not meet the triggers described above. <sup>7</sup> |
| 16 |      |  |
| 17 |      | The FCC requires that in conducting this analysis, the state must consider and may             |
| 18 |      | also find no impairment on a particular route that it finds is suitable for "multiple,         |
| 19 |      | competitive supply," but along which this trigger is not facially satisfied. States must       |
| 20 |      | expressly base any such decision on the following economic characteristics: local              |

<sup>7</sup> Triennial Review Order, at ¶410.

| 1                    |                 | engineering costs of building and utilizing transmission facilities; the cost of   |
|----------------------|-----------------|--|
| 2                    |                 | underground or aerial laying of fiber; the cost of equipment needed for transmission;  |
| 3                    |                 | installation and other necessary costs involved in setting up service; local topography  |
| 4                    |                 | such as hills and rivers; availability of reasonable access to rights-of-way; the  |
| 5                    |                 | availability or feasibility of alternative transmission technologies with similar quality  |
| 6                    |                 | and reliability; customer density or addressable market; and existing facilities-based   |
| 7                    |                 | competition. <sup>8</sup>  |
| 8                    |                 |  |
| 9                    | Q.              | WHAT IS THE PURPOSE OF BELLSOUTH'S POTENTIAL DEPLOYMENT  |
| 10                   |                 | ANALYSIS?  |
| 11                   |                 |  |
|                      |                 |  |
| 12                   | A.              | The purpose of BellSouth's potential deployment analysis is to identify routes that  |
| 12<br>13             | A.              | The purpose of BellSouth's potential deployment analysis is to identify routes that<br>do not meet the triggers for transport, but which are suitable for "multiple  |
| 13                   | A.              |  |
| 13<br>14             | A.              | do not meet the triggers for transport, but which are suitable for "multiple   |
| 13<br>14             | A.              | do not meet the triggers for transport, but which are suitable for "multiple<br>competitive supply" when the criteria described above are examined. As I show  |
| 13<br>14<br>15       | А.<br><b>Q.</b> | do not meet the triggers for transport, but which are suitable for "multiple<br>competitive supply" when the criteria described above are examined. As I show  |
| 13<br>14<br>15<br>16 |                 | do not meet the triggers for transport, but which are suitable for "multiple<br>competitive supply" when the criteria described above are examined. As I show<br>below, 91 such routes have been identified in BellSouth's service territory in Florida.   |
| 14<br>15<br>16<br>17 |                 | do not meet the triggers for transport, but which are suitable for "multiple<br>competitive supply" when the criteria described above are examined. As I show<br>below, 91 such routes have been identified in BellSouth's service territory in Florida.<br>HOW MANY CLECS ARE REQUIRED ON A ROUTE FOR "MULTIPLE |

| 1                          |                 | sets three CLECs as the lower threshold for "multiple competitive supply" that   |
|----------------------------|-----------------|--|
| 2                          |                 | would be sufficient for non-impairment. Therefore, I assume that a minimum of  |
| 3                          |                 | three CLECs is also required in my potential deployment analysis. That is, if two  |
| 4                          |                 | actual CLECs currently serve a route, to establish non-impairment, it would only   |
| 5                          |                 | require the demonstration that one more CLEC could potentially deploy transport  |
| 6                          |                 | facilities along that route. If no actual CLEC currently serves that route, then it  |
| 7                          |                 | would be necessary to demonstrate that three CLECs would potentially be able to  |
| 8                          |                 | deploy transport facilities. This methodology allows me to take into account   |
| 9                          |                 | "existing facilities-based competition," as the Triennial Review Order requires.   |
| 10                         |                 |  |
|                            |                 |  |
| 11                         | Q.              | PLEASE DESCRIBE BELLSOUTH'S POTENTIAL DEPLOYMENT   |
| 11<br>12                   | Q.              | PLEASE DESCRIBE BELLSOUTH'S POTENTIAL DEPLOYMENT<br>ANALYSIS AT A CONCEPTUAL LEVEL.  |
|                            | Q.              |  |
| 12                         | <b>Q.</b><br>A. |  |
| 12<br>13                   | -               | ANALYSIS AT A CONCEPTUAL LEVEL.  |
| 12<br>13<br>14             | -               | ANALYSIS AT A CONCEPTUAL LEVEL.<br>BellSouth's potential deployment analysis investigates the economic attractiveness  |
| 12<br>13<br>14<br>15       | -               | ANALYSIS AT A CONCEPTUAL LEVEL.<br>BellSouth's potential deployment analysis investigates the economic attractiveness<br>to CLECs of deploying fiber-based transport facilities to additional BellSouth wire   |
| 12<br>13<br>14<br>15<br>16 | -               | ANALYSIS AT A CONCEPTUAL LEVEL.<br>BellSouth's potential deployment analysis investigates the economic attractiveness<br>to CLECs of deploying fiber-based transport facilities to additional BellSouth wire<br>centers where they may not have such facilities at the present time. The financial |

- 20 potential revenue exceeds the potential cost.
- 21
- The "revenue" in this case (unlike that in the potential loop deployment situation) is the savings that a CLEC could realize by no longer having to lease from BellSouth

| 1  |    | the unbundled transport and special access for routes that connect the wire center to          |
|----|----|--|
| 2  |    | other wire centers where the CLEC is already collocated. <sup>9</sup> The "cost" comprises the |
| 3  |    | expenses that the CLEC would incur (both upfront and on an ongoing basis) to                   |
| 4  |    | extend its network by deploying fiber to the additional wire center from its nearest           |
| 5  |    | current collocation site where it has fiber facilities.  |
| 6  |    |  |
| 7  |    | From an economic perspective, this analysis represents the familiar "buy or build"             |
| 8  |    | decision. Its purpose is to determine whether it is more economical for the CLEC to            |
| 9  |    | continue leasing transport facilities from BellSouth or to build its own facilities.           |
| 10 |    |  |
| 11 | Q. | HOW DO YOU DETERMINE THE POTENTIAL REVENUE WHEN A  |
| 12 |    | CLEC EXTENDS ITS NETWORK TO AN ADDITIONAL WIRE CENTER  |
| 13 |    | BY INVESTING IN ITS OWN FIBER TRANSPORT FACILITIES?  |
| 14 |    |  |
| 15 | A. | As described above, the potential revenue to a CLEC from extending its network to              |
| 16 |    | an additional wire center where it is not currently collocated can be conservatively           |
| 17 |    | estimated as that CLEC's current total spending on BellSouth-leased transport from             |
| 18 |    | that wire center to other wire centers within its network. This spending, which the            |
| 19 |    | CLEC saves (or avoids) by deploying its own fiber transport facilities, is determined          |
| 20 |    | for every CLEC from BellSouth's actual September 2003 billing records for                      |
| 21 |    | wholesale transport (UNE and special access). Although a CLEC that has installed               |

<sup>9</sup> This is a conservative estimate because it ignores the additional savings that may be realized if the CLEC currently buys transport at higher rates from wholesalers other than BellSouth.

1 its own facilities could likely generate additional revenue by wholesaling transport to 2 other carriers, my conservative estimate of potential CLEC revenue does not account 3 for that possibility. 4 5 **O. HOW DO YOU DETERMINE THE CLEC'S ADDITIONAL COST TO** 6 EXTEND ITS NETWORK TO AN ADDITIONAL WIRE CENTER? 7 8 A. A CLEC's network is typically fully interconnected, i.e., transport facilities connect 9 every wire center within a LATA at which the CLEC is collocated. It follows that, 10 to add a new wire center to its network, a CLEC merely has to extend fiber to it from 11 any location at which it is currently collocated. To calculate the cost of that network 12 extension, it is first necessary to identify the nearest location from which the 13 extension can be made. Subsequently, it is necessary to determine the expenses that 14 would be incurred to lay the new fiber and add the equipment needed to make the 15 fiber operationally ready to provide transport. I describe each of these steps below. 16 17 O. IN CONSIDERING A WIRE CENTER THAT MAY BE ADDED TO THE 18 **CLEC'S NETWORK, HOW DO YOU DETERMINE THE NEAREST** 19 LOCATION (WIRE CENTER) WHERE THE CLEC CURRENTLY HAS 20 FIBER? 21 22 That determination requires the creation of two tables. The first table contains, for A.

| 1  |    |   |
|----|----|---|
| 1  |    | each CLEC, information on every building and wire center currently connected by its     |
| 2  |    | self-deployed fiber. This is the same information (compiled from discovery and          |
| 3  |    | BellSouth's internal data) that is used in BellSouth witness Shelly Padgett's Direct    |
| 4  |    | Testimony to conduct the triggers tests for unbundled loop and transport facilities.    |
| 5  |    | BellSouth's internal records and standard address-matching software provide the         |
| 6  |    | "V&H coordinates," or latitude and longitude, for every wire center.                    |
| 7  |    |   |
| 8  |    | The second table contains, for each CLEC, the remaining wire centers at which the       |
| 9  |    | CLEC is not collocated presently, but at which it could potentially collocate to        |
| 10 |    | augment its existing network.   |
| 11 |    |   |
| 12 |    | Given the two tables, simple queries in Microsoft Access are used to determine, for     |
| 13 |    | each CLEC, the distance between each wire center from the second table and the          |
| 14 |    | nearest wire center from the first table. This exercise provides the distance that      |
| 15 |    | needs to be covered to connect a currently off-network wire center to the nearest on-   |
| 16 |    | network wire center. As for extending loop facilities, distance here is also calculated |
| 17 |    | as the North/South right angle distance, which generally overestimates the distance     |
| 18 |    | because a more direct route can usually be found.                                       |
| 19 |    |   |
| 20 | Q. | HOW DO YOU DETERMINE THE COST TO EXTEND THE CLEC'S                                      |
| 21 |    | NETWORK TO AN ADDITIONAL WIRE CENTER?   |
| 22 |    |   |

23 A. The network design and the costs of the various components of that network design

| 1  |    | necessary to extend the CLEC's network are described in the Direct Testimony of       |
|----|----|---|
| 2  |    | Mr. Gray. I rely on Mr. Gray's evidence to establish the cost of extending the CLEC   |
| 3  |    | network in my analysis.   |
| 4  |    |   |
| 5  | Q. | HAVING DETERMINED THE REVENUES AND COSTS, HOW DO YOU                                  |
| 6  |    | CALCULATE THE NPV OF THE DEPLOYMENT?  |
| 7  |    |   |
| 8  | A. | The NPV is calculated in the standard way from the after-tax cash flows, assuming     |
| 9  |    | that all capital expenditures are made in year zero and depreciate over 10 years, and |
| 10 |    | incorporating the tax and cost of capital assumptions as filed in Docket No. 030851-  |
| 11 |    | TP. That is:  |
| 12 |    | 1. Calculate the required capital expenditure in year zero.                           |
| 13 |    | 2. Calculate the annual depreciation and the resulting depreciation tax-shield using  |
| 14 |    | an average tax rate of 39%.   |
| 15 |    | 3. Calculate network-operating expenses.  |
| 16 |    | 4. Calculate pre-tax operating income by subtracting network operating expenses       |
| 17 |    | from revenue.   |
| 18 |    | 5. Calculate after-tax operating income and, hence, cash flows (by adding the         |
| 19 |    | depreciation tax shield).   |

1 6. Calculate the 10-year NPV, using the mid-year convention for cash flows and a 2 discount rate of 10.8%. To be conservative, I do not assume any continuing value 3 beyond the 10-year period. 4 5 Q. HOW DO YOU SELECT THE WIRE CENTERS (AND, HENCE, THE 6 **ROUTES) THAT MEET THE POTENTIAL DEPLOYMENT TEST?** 7 8 A. For a given CLEC, the wire centers that satisfy the potential deployment test are 9 those for which NPV > 0 as calculated according to the methodology described 10 above. Once those wire centers are identified, it is a simple matter to calculate the 11 additional routes on which a CLEC would be able to deploy its own transport 12 facilities. Once this is done for every CLEC, it is a matter of counting to determine 13 which routes for which a finding of no impairment must be made. 14 15 Q. BASED ON THE ANALYSIS THAT YOU HAVE JUST DESCRIBED, 16 WHICH ROUTES SATISFY THE POTENTIAL DEPLOYMENT TEST FOR 17 NON-IMPAIRMENT WITH RESPECT TO TRANSPORT FACILITIES? 18 19 A. Exhibit AXB-3 shows the list of routes (pairs of wire centers) that satisfy the 20 potential deployment test for DS3 and dark fiber transport facilities. Based on the 21 test prescribed by the FCC, I conclude that there is no impairment for DS3 and dark 22 fiber transport on the routes on that list.

| 1  | Q. | ARE YOU SUBMITTING THE FINAL LIST OF ROUTES THAT QUALIFY                      |
|----|----|---|
| 2  |    | FOR UNBUNDLING RELIEF ON THE BASIS OF THE POTENTIAL                           |
| 3  |    | DEPLOYMENT TEST?  |
| 4  |    |   |
| 5  | A. | No. BellSouth reserves the right to change the list of routes after receiving |
| 6  |    | responses to additional discovery requests.                                   |
| 7  |    |   |
| 8  | 0  | DOES THIS CONCLUDE YOUR TESTIMONY?  |
| 0  | ٧· | DOES THIS CONCLUDE TOOK TESTIMONT.  |
| 9  |    |   |
| 10 | A. | Yes.  |



| 1  |    | ON BEHALF OF BELLSOUTH TELECOMMUNICATIONS, INC.                                    |
|----|----|--|
| 2  |    | SUPPLEMENTAL DIRECT TESTIMONY OF   |
| 3  |    | ANIRUDDHA (ANDY) BANERJEE, Ph.D.   |
| 4  |    | <b>BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION</b>                                |
| 5  |    | <b>DOCKET NO. 030852-TP</b>  |
| 6  |    | <b>JANUARY 9, 2004</b>   |
| 7  | Q. | PLEASE STATE YOUR NAME, BUSINESS ADDRESS, AND CURRENT                              |
| 8  |    | POSITION.  |
| 9  |    |  |
| 10 | A. | My name is Aniruddha (Andy) Banerjee. I am a Vice President at NERA Economic       |
| 11 |    | Consulting located at One Main Street, Cambridge, Massachusetts 02142.             |
| 12 |    |  |
| 13 | Q. | ARE YOU THE SAME DR. BANERJEE THAT FILED DIRECT                                    |
| 14 |    | <b>TESTIMONY IN THIS PROCEEDING ON DECEMBER 22, 2003?</b>                          |
| 15 | A. | Yes.   |
| 16 | Q. | WHAT IS THE PURPOSE OF YOUR SUPPLEMENTAL DIRECT                                    |
| 17 |    | TESTIMONY?   |
| 18 |    |  |
| 19 | А. | This supplemental direct testimony updates the exhibits that were attached to my   |
| 20 |    | Direct Testimony on December 22, 2003. Based on the revised exhibits, I also       |
| 21 |    | update my principal conclusions concerning the total customer locations and routes |
| 22 |    | where CLECs are not impaired without access to BellSouth's unbundled loops and     |
|    |    |  |

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1 transport facilities. I have attached supplemental exhibits AXB-2 and AXB-3, which 2 replace the former versions of these exhibits that were attached to my direct 3 testimony. **Q. PLEASE DESCRIBE THE CHANGES YOU HAVE MADE TO EXHIBITS** 4 5 AXB-2 AND AXB-3 AND THE REASONS FOR THE CHANGES. 6 7 A. I have revised the list of customer locations (AXB-2) and routes between BellSouth 8 wirecenters (AXB-3) that are suitable for potential deployment. This change is 9 necessary because - as described in Ms. Padgett's supplemental direct testimony after my testimony was filed on December 22<sup>nd</sup>, the ongoing discovery process 10 11 altered my prior understanding of the buildings and central offices where CLECs 12 have their own facilities. In addition, as Ms. Padgett's supplemental direct testimony 13 describes, certain buildings not located in BellSouth's territory were excluded. As 14 the case for *potential* deployment depends on where there is *actual* deployment (as I described in my previous testimony), I have had to amend my exhibits accordingly. 15 16 17 Q. WHAT IS THE OVERALL IMPACT OF THE CHANGES YOU HAVE MADE TO EXHIBITS AXB-2 AND AXB-3? 18 19 20 A. I find that CLECs are not impaired without access to BellSouth's unbundled loops in 21 421 customer locations, and CLECs are not impaired without access to BellSouth's 22 transport facilities on 155 routes.



| 1  |    |  |
|----|----|--|
| 2  | Q. | ARE YOU SUBMITTING THE FINAL LIST OF BUILDINGS AND ROUTES                              |
| 3  |    | THAT QUALIFY FOR UNBUNDLING RELIEF ON THE BASIS OF THE                                 |
| 4  |    | POTENTIAL DEPLOYMENT TEST?   |
| 5  |    |  |
| 6  | A. | No. It is possible that as a result of ongoing discovery that further modifications    |
| 7  |    | may occur and BellSouth reserves the right to change the list of buildings and routes. |
| 8  |    |  |
| 9  | Q. | DOES THIS CONCLUDE YOUR SUPPLEMENTAL DIRECT TESTIMONY?                                 |
| 10 |    |  |
| 11 | A. | Yes.   |

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#### ON BEHALF OF BELLSOUTH TELECOMMUNICATIONS, INC.

#### SURREBUTTAL TESTIMONY OF ANIRUDDHA (ANDY) BANERJEE, Ph.D.

#### **BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

#### **DOCKET NO. 030852-TP**

#### **FEBRUARY 4, 2004**

#### 1 I. INTRODUCTION AND PURPOSE

# Q. PLEASE STATE YOUR NAME, BUSINESS ADDRESS, AND CURRENT POSITION.

- 5 A. My name is Aniruddha (Andy) Banerjee. I am a Vice President at NERA Economic Consulting
- 6 located at One Main Street, Cambridge, Massachusetts 02142.
- 7

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#### 8 Q. HAVE YOU FILED TESTIMONY PREVIOUSLY IN THIS PROCEEDING?

9

A. Yes, I filed direct testimony (on December 22, 2003) and supplemental direct testimony (on

11 January 9, 2004) in this proceeding.

#### 12 Q. WHAT IS THE PURPOSE OF YOUR SURREBUTTAL TESTIMONY?

13 A. My surrebuttal testimony responds to specific allegations and claims of an economic nature by

- 14 witnesses for intervening parties, including Gary J. Ball on behalf of the Florida Competitive
- 15 Carriers Association ("FCCA"), Kent W. Dickerson on behalf of the Sprint/United Management
- 16 Company ("Sprint"), and James C. Falvey on behalf of Xspedius Communications LLC. In

-2-

2 December 22, 2003.

#### 3 II. REVISED EXHIBITS

# Q. PLEASE EXPLAIN WHY YOU HAVE INCLUDED REVISED EXHIBITS FOR CUSTOMER LOCATIONS AND ROUTES THAT SATISFY THE POTENTIAL DEPLOYMENT TEST.

A. There are two reasons. First, the revised exhibits reflect modified cost and other inputs to my
analysis of potential deployment as detailed in the surrebuttal testimony of A. Wayne Gray. Thus,
I have used revised network costs for the LGX and intra-building network cable and termination.
In addition, I have used the most updated set of fiber nodes, which incorporates additional
discovery responses. As I noted in my direct and supplemental direct testimonies, BellSouth
reserved the right to modify the locations and routes that qualify for unbundling based on
additional discovery.

The revised customer locations and inter-office routes that satisfy the potential deployment test are presented in the attached Exhibits AXB-2 and AXB-3, which replace the prior versions of these exhibits.

18

#### 19 III. RESPONSES TO OTHER PARTIES

#### 20 Q. MR. DICKERSON ARGUES [AT 29-30] THAT BELLSOUTH'S POTENTIAL

#### 21 DEPLOYMENT TEST OVERLOOKS THE "FACT" THAT CLECS' FAILURE THUS

22 FAR TO SERVE MORE CUSTOMER LOCATIONS CONTRADICTS

## BELLSOUTH'S CONTENTION THAT CLECS COULD POTENTIALLY DEPLOY LOOP FACILITIES AT THOSE LOCATIONS. DO YOU AGREE?

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A. No. The thrust of Mr. Dickerson's argument is that serving the additional customer locations in 4 Florida identified by my potential deployment test cannot possibly be profitable simply because 5 CLECs have thus far avoided serving those locations. This argument, presented as "evidence" 6 that CLECs remain impaired and involuntarily precluded from serving certain customer locations, 7 cannot be taken as serious criticism of either the potential deployment test itself (as devised by the 8 FCC) or how I have conducted it. Contrary to what Mr. Dickerson appears to imply, the 9 potential deployment test is not a gauge or barometer of what a CLEC would do; rather, it is 10 intended to demonstrate what it *could* do. That is, the mere fact that CLECs have not yet made 11 the effort to serve certain customer locations cannot be considered dispositive evidence that they 12 would not do so at the "right" time. Again, for the potential deployment test for loops, it suffices 13 only to demonstrate that, given what we know about specific customer locations and the 14 circumstances that any carrier would face to serve them, at least two CLECs could profitably 15 serve each such location. 16

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Mr. Dickerson offers several "practical" explanations for the current seeming CLEC 18 disinterest in the additional customer locations in Florida to which loop deployment could be 19 profitable according to my analysis. These include (1) non-availability of conduit space, (2) non-20 availability of rights-of-way within a "reasonable timeframe," (3) insufficient revenue potential, and 21 (4) infeasible cost recovery. A careful reading of my testimony would show that my potential 22 deployment analysis attempts to take into account all of these factors. In fact, I note in my direct 23 testimony that the FCC has specifically required that account be taken in the potential deployment 24 analysis of many of the factors cited by Mr. Dickerson. 25

In the ultimate analysis, I question the premise that CLECs are unlikely to have chosen 2 voluntarily to pass up profitable business opportunities presented by the customer locations that 3 are identified by my potential deployment test. Entry and expansion decisions by firms are 4 dictated by a variety of factors including the availability of alternative deployment strategies, the 5 appropriate scale of efficient operations relative to the level of available demand, access to capital 6 markets, and (frequently) the business models and objectives of those firms regarding the scope 7 and timing of their activities. In the environment in which CLECs operate in Florida, the 8 availability of unbundled network elements ("UNEs") at regulated prices is likely to have an 9 important bearing on CLEC choices because the relative economics of leasing UNEs and 10 deploying owned facilities may well prompt CLECs to choose to expand through the use of 11 UNEs rather than by deploying their own facilities. As a result, although the presence of facilities 12 meeting the triggers test is evidence of non-impairment, the absence of such facilities *cannot* be 13 taken as evidence of impairment. The advantage of having a "potential deployment" test in 14 addition to the triggers is that this fact is properly recognized. 15

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Q. PLEASE EXPLAIN WHETHER YOUR POTENTIAL DEPLOYMENT ANALYSIS
 TAKES ACCOUNT OF THE FACTORS THAT MR. DICKERSON IDENTIFIES AS
 PRESENTING PRACTICAL CONSTRAINTS ON THE DEPLOYMENT OF LOOP
 FACILITIES BY CLECS.

A. The FCC's *Triennial Review Order* specifies a set of nine factors each for the potential
 deployment analysis of loop facilities (to serve customer locations) and transport facilities (to
 serve inter-office routes), respectively. I detail below the manner in which I take those nine
 factors or criteria into account.

| 1  | Loops (see TRO ¶335 and Rules §51.319(a)(5)(ii), (6)(ii))   |
|----|---|
| 2  | Factor 1 (Evidence of alternative loop deployment at that location)                                   |
| 3  |   |
| 4  | I count actual loops deployed to the customer location towards the two carriers required to           |
| 5  | show competitive supply. That is, if one actual carrier currently serves a location, a finding of     |
| 6  | non-impairment would only require the demonstration that one more carrier could potentially           |
| 7  | deploy facilities to that location. (Note that Mr. Dickerson is incorrect - and inconsistent with his |
| 8  | own argument – when he asserts (p.24) that two CLECs must both be potentially deploying,              |
| 9  | thereby ignoring the evidence of actual loop deployment.)   |
| 10 | Factors 2 to 5 (Local engineering costs of building and utilizing transmission facilities;            |
| 11 | the cost of underground or aerial laying of fiber or copper; the cost of equipment                    |
| 12 | needed for transmission; installation and other necessary costs involved in setting up                |
| 13 | service)  |
| 14 |   |
| 15 | The costs of building the network to the customer location and setting up service are fully           |
| 16 | considered in the analysis and are detailed in the direct and surrebuttal testimonies of BellSouth    |
| 17 | witness A. Wayne Gray in this proceeding.   |
| 18 |   |
| 19 | Factor 6 (Local topography such as hills and rivers.)   |
| 20 | To determine the cost of deploying a fiber cable to a customer location, I use, as a reasonable       |
| 21 | proxy, the conservative assumption that the fiber loop follows a right-angle path from the CLEC's     |
| 22 | fiber node to the customer location. Because the locations for which potential deployment is          |

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| 1  | viable are located in urban commercial areas with few topography concerns, and since CLECs           |
|----|--|
| 2  | already have fiber nodes relatively close to these locations, the right-angle methodology is a       |
| 3  | conservative alternative that accounts for local topography. If anything, this methodology is likely |
| 4  | to over-estimate, rather than under-estimate, the distances over which CLECs have to deploy          |
| 5  | their loops. Thus, my analysis is likely also to under-estimate the number of customer locations     |
| 6  | that CLECs could serve profitably out of their own loops.  |
| 7  | Factor 7 (Availability of reasonable access to rights-of-way)  |
| 8  | Costs associated with rights-of-way are taken into account, as described in Mr. Gray's direct        |
| 9  | and surrebuttal testimonies.   |
| 10 | Factor 8 (Building access restrictions/costs)  |
| 11 | Based on BellSouth's experience in deploying high-capacity services to commercial buildings,         |
| 12 | few building access restrictions or costs constitute a material barrier to loop deployment.          |
| 13 | Typically, building owners in BellSouth's service territory do not charge access fees and, in the    |
| 14 | limited situations in which this occurs, such costs are passed directly on to end-user customers.    |
| 15 | Factor 9 (Availability/feasibility of similar quality/reliability alternative transmission           |
| 16 | technologies at that particular location)  |
| 17 |  |
| 18 | Although the Triennial Review Order provides the flexibility to consider alternative transmission    |
| 19 | technologies that may be more cost effective for particular customer locations, BellSouth has        |
| 20 | chosen to model costs for a fiber-optics network architecture similar to the one it uses when        |
| 21 | deploying loops to high-capacity buildings.  |
| 22 | Transport (see TRO ¶410 and Rules §51.319(e)(2)(ii), (3)(ii))  |

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Surrebuttal Testimony of Aniruddha (Andy) Banerjee, Ph.D. FPSC Docket No. 030852-TP February 4, 2004

| 1  | Factors 1 to 4 (Local engineering costs of building and utilizing transmission facilities;         |
|----|--|
| 2  | the cost of underground or aerial laying of fiber or copper; the cost of equipment                 |
| 3  | needed for transmission; installation and other necessary costs involved in setting up             |
| 4  | service)   |
| 5  | The costs of building the network and setting up service are fully considered and are described in |
| 6  | Mr. Gray's direct and surrebuttal testimonies.   |
| 7  | Factor 5 (Local topography such as hills and rivers)   |
| 8  | The transport analysis is similar to the loop analysis, which uses, as a proxy, the conservative   |
| 9  | assumption that the fiber loop follows a right-angle path from the CLEC's fiber node to the wire   |
| 10 | center. Because the wire centers involved are in urban commercial areas with few or no             |
| 11 | topography concerns, and since CLECs already have fiber nodes relatively close to these wire       |
| 12 | centers, this methodology is a conservative and reasonable method of satisfying the topography     |
| 13 | aspect of the rule. Again, this methodology is likely to under-estimate the number of routes on    |
| 14 | which CLEC deployment would be profitable.   |
| 15 | Factor 6 (Availability of reasonable access to rights-of-way)                                      |
| 16 | Costs associated with rights-of-way are taken into account, as described in Mr. Gray's direct      |
| 17 | and surrebuttal testimonies.   |
| 18 | Factor 7 (Availability/feasibility of similar quality/reliability alternative transmission         |
| 19 | technologies along the particular route)   |
| 20 | Although the Triennial Review Order provides the flexibility to consider alternative transmission  |
| 21 | technologies that may be more cost effective for particular routes, BellSouth has chosen to model  |
| 22 | costs for a fiber-optic network architecture similar to the one it uses when deploying interoffice |
| 23 | transport facilities.  |
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| 1  |    | Factor 8 (Customer density or addressable market)   |
|----|----|---|
| 2  |    | My analysis of potential deployment of transport facilities uses a "build versus buy" decision      |
| 3  |    | where the benefit of self-deployment for each CLEC is the savings achieved by not leasing           |
| 4  |    | wholesale transport from BellSouth. Since I use the actual BellSouth revenues by CLEC for each      |
| 5  |    | specific route in the analysis, this methodology reflects the actual revenues that each CLEC        |
| 6  |    | obtains from the currently addressed market.  |
| 7  |    | Factor 9 (Existing facilities-based competition)  |
| 8  |    | As three carriers are required to meet the self-deployment trigger for transport, I assume the      |
| 9  |    | same threshold for the potential case - that is, I demonstrate that, counting actual transport      |
| 10 |    | facilities, a total of three carriers are required on a particular route to show competitive supply |
| 11 |    | (e.g., if one actual carrier currently has transport facilities along a route, a finding of non-    |
| 12 |    | impairment would require the demonstration that two more carriers could potentially deploy          |
| 13 |    | facilities on that route).  |
| 14 |    |   |
| 15 | Q. | BEYOND THESE FCC-SPECIFIED FACTORS, DOES YOUR POTENTIAL   |
| 16 |    | DEPLOYMENT ANALYSIS TAKE OTHER FACTORS INTO ACCOUNT, SUCH AS  |
| 17 |    | CLECS' ACCESS TO CAPITAL, AS SUGGESTED BY MR. FALVEY [AT 22]?                                       |
| 18 |    |   |
| 19 | A. | No. Although Mr. Falvey asks this Commission to consider the "current limited access to capital     |
| 20 |    | of CLECs," I would urge that there be no expansion of the potential deployment test beyond the      |
| 21 |    | factors specified by the FCC. The granularity achieved in such a test by following the FCC's        |
| 22 |    | instructions in the matter is significant enough. Granting Mr. Falvey's request would open the      |
| 23 |    | door to various other requests to expand and, in the process, unnecessarily complicate the test.    |
| 24 |    | Besides, Mr. Falvey's concern about limited access to capital is clearly less valid in today's      |

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capital market circumstances than it may have been some years ago. Moreover, the return on 2 equity, used to determine the cost of capital, takes in consideration the circumstance of the capital market. 3

#### Q. PLEASE RESPOND TO MR. DICKERSON'S SPECIFIC CONCERN [AT 28], 5 ECHOED BY MR. BALL [AT 57], THAT CUSTOMERS AT LOCATIONS TO 6 WHICH CLECS HAVE NOT DEPLOYED LOOP FACILITIES MAY BE TIED UP IN 7 MULTI-YEAR CONTRACTS WITH BELLSOUTH. 8

10 A. Mr. Dickerson's concern in this respect is almost certainly exaggerated. While contracts are a standard business arrangement that minimizes risk and raises the certainty of financial 11 12 commitments of buyers and sellers alike, there is no reason to believe-and neither Mr. Dickerson nor any of the other parties provides any evidence—that BellSouth has employed such 13 contracts as an entry deterrent. Contracts are not of indefinite or unduly long durations, and they 14 15 probably do not run concurrently for every business customer in a building. That is, some of the customers in a building may be in contracts that are likely to expire imminently or in the near term, 16 and opportunities for CLEC entry into the building may certainly exist for those customers. 17 Moreover, when CLECs signal an interest in bidding for a customer's *future* business, that 18 customer may itself be reluctant to sign long-term contracts that would effectively preclude it from 19 20 seeking alternatives to an incumbent carrier like BellSouth. Competitive pressures may increase the prospects for a variety of contracts, including various shorter-term contracts designed to 21 entice customers away from the incumbent by offering specific advantages and incentives. 22 23

#### **Q.** PLEASE COMMENT ON MR. BALL'S ASSERTION [AT 46], REPEATED BY MR. 24

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DICKERSON [AT 42 AND 45], THAT BELLSOUTH'S DEMONSTRATION OF 1 2 POTENTIAL DEPLOYMENT BY THE REQUIRED NUMBER OF CLECS (TWO FOR LOOPS, THREE FOR ROUTES) MUST BE LOCATION-SPECIFIC. 3 A. That is exactly how I have conducted my potential deployment analysis. As the exhibits attached 4 to my direct testimony clearly show, *specific* customer locations and routes between pairs of 5 BellSouth central offices are identified as being profitable for the requisite number of CLECs to 6 serve. These locations and routes are actual and readily identifiable by their addresses or 7 latitude-longitude parameters. For each such location or route, my analysis examines the 10-year 8 net present value of CLEC entry, conditional on the nine factors that the FCC requires be taken 9 into account. 10 11 Q. MR. BALL ALSO CONTENDS [AT 50] THAT THE POTENTIAL DEPLOYMENT 12 TEST MUST DEMONSTRATE THAT THE REVENUE AVAILABLE TO A CLEC 13 AT A PARTICULAR LOCATION MUST BE SUFFICIENT TO "OVERCOME THE 14 FIXED AND SUNK COSTS OF CONSTRUCTING A FACILITY AT THAT 15 LOCATION." DOES YOUR ANALYSIS MAKE THAT DEMONSTRATION? 16 17 A. Yes. In fact, my analysis is even more comprehensive than that suggested by Mr. Ball. The 18 revenues available to CLECs must be shown to compensate them not only for their fixed and sunk costs but also for all of the variable operational costs associated with a 10-year period of 19 operation. The revenue assumptions are developed carefully by reference to expert reports on 20 actual CLEC experiences in the marketplace. Again, because the burden carried by the potential 21 deployment test is only to demonstrate that the CLEC *could* earn enough revenues to recover its 22 23 various costs, it is not necessary to prove somehow that actual CLEC deployments would occur. 24 My analysis and the assumptions on which it rests are consistent with that predicate. 25

1 Q. PLEASE PROVIDE AN EXAMPLE OF YOUR USE OF ACTUAL CLEC **EXPERIENCE IN THE MARKETPLACE TO MAKE ASSUMPTIONS ABOUT** 2 **REVENUE IN YOUR POTENTIAL DEPLOYMENT ANALYSIS.** 3 A. One important example is the assumption that each of the two potential CLECs serving a new 4 5 building would have 15% of the revenue available from that building (note that Mr. Dickerson is incorrect when he asserts that my analysis "fails to take into account" that 2 CLECs must share 6 the revenue (p,32)). The basis for this assumption is provided by three specific market reports 7 that document revenue shares achieved by CLECs serving business customers. These are (1) 8 "Teligent, Inc. Initial Report" by Ferris Baker Watts, September 21, 2000, (2) "Winstar 9 Communications, Inc. Initial Report" by Ferris Baker Watts, January 26, 2001, and (3) 10 "Broadband 2001" by McKinsey & Company and J.P. Morgan, April 2, 2001. 11 12

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#### 13 Q. HOW DO YOU RECONCILE YOUR ASSUMPTION THAT TWO CLECS CAN

#### 14 EACH GAIN A 15% REVENUE SHARE IN A BUILDING WITH THE POSSIBILITY

#### 15 (CITED BY MR. DICKERSON) THAT CUSTOMERS MAY BE TIED UP IN LONG-

#### 16 TERM CONTRACTS WITH THEIR CURRENT SUPPLIERS?

A. This is a reasonable assumption because, when selecting buildings from the TNS Telecoms
database, all the buildings with fewer than three tenants are first removed from consideration,
leaving only buildings with a large enough pool of potential customers to be targeted by CLECs.
Also, customers in the enterprise market typically have multiple telecommunications suppliers in
order to negotiate better contracts and to obtain redundancy to protect against network failures.
This multiple supplier environment, together with the filter on number of tenants per building,
assures that opportunities exist for CLECs to gain market share in a building.

#### Q. PLEASE RESPOND TO MR. DICKERSON'S ASSERTION [AT 31] THAT THE 1 **ASSUMPTION THAT "\$60,000 IS SUFFICIENT ANNUAL REVENUE TO JUSTIFY** 2 **BUILDING FIBER INTO ALL 421 IDENTIFIED LOCATIONS"** 3 UNDERESTIMATES SIGNIFICANTLY THE REVENUE THAT WOULD 4 **ACTUALLY BE NEEDED.** 5 6 A. The basis for Mr. Dickerson's assertion appears to be his mistaken belief that my analysis 7 regards any building with \$60,000 in annual revenue as suitable for facilities deployment. Nothing 8 could be farther from the actual, building-by-building analysis that I performed, and I suspect this fundamental misunderstanding may be at the root of many of Mr. Dickerson's other, equally 9 incorrect observations about my methodology. In fact, I use the \$60,000 annual (equivalently, 10 \$5,000 monthly) revenue figure merely as an initial filter that conservatively reduces the number of 11 12 buildings considered in the potential deployment analysis to a manageable level by eliminating any that are below this threshold (even thought they may have met the potential deployment test). For 13 example, use of this filter reduces the number of candidate buildings in Florida from more than 14 15 200,000 to approximately 7,000.

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17 Mr. Dickerson also asserts [at 33-34] that the annual revenue available from a building ought to be at least \$240,000, rather than the \$60,000 I have chosen for my filter. This assertion, 18 again, stems from a misunderstanding of my purpose in using the \$60,000 annual revenue filter. 19 20 Moreover, it is based on a number of other assumptions that need not apply to my analysis. For 21 example, Mr. Dickerson computes his \$240,000 minimum annual revenue requirement on the assumption that the two CLECs that potentially deploy their own loops would account for 50% 22 of the revenue available from a building. My analysis makes the more conservative assumption, 23 based on actual CLEC experience, that the collective share of the two equally sized CLECs 24 25 would be approximately 30%. Second, Mr. Dickerson cites CLEC market share estimates

| (available from independent market research firms) that, if read Mr. Dickerson's way, would              |
|--|
| appear to cast doubt on either the collective 30% share assumption in my analysis or even the            |
| more extreme 50% share assumption. Mr. Dickerson does not explain why the 14.6% CLEC                     |
| share of private line revenue may match its likely revenue share from serving a building occupied        |
| by small and medium business customers. Furthermore, in selectively reporting the 13.2% CLEC             |
| share of "entire telecommunications market," Mr. Dickerson does not explain why that statistic           |
| represents the CLEC share of the enterprise market. <sup>1</sup> Finally, Mr. Dickerson does not explain |
| that any nationwide or region wide CLEC share (averaged over a larger base that includes                 |
| buildings not served by CLEC) is necessarily lower than the CLEC shares of the telecom spend             |

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- 10 in buildings that CLECs actually serve over their own facilities.
- 11

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#### 12 Q. GIVEN THE CRITICISMS OF YOUR ANALYSIS (IN PARTICULAR, MR. BALL'S

#### 13 ASSERTION [AT 65] THAT YOU RELY ON "HYPOTHETICAL COST"

#### 14 ASSUMPTIONS), PLEASE EXPLAIN HOW YOU ENSURED THAT THE INPUTS IN

- 15 YOUR ANALYSIS ARE REASONABLE.
- 16 A. As I explained earlier, my analysis makes every effort to conform to the nine FCC-specified
- 17 factors for both loops and transport facilities. Beyond the investment cost associated with loops
- and associated equipment, I also include two categories of cost: "COGS and other network
- 19  $\cos x$ ," and SG&A:

<sup>&</sup>lt;sup>1</sup> Mr. Dickerson does not mention whether that share is of access lines served or revenues earned. If it is the access-line share then, given that CLECs seek out the most lucrative business customers, a 13.2% line share may well translate into a considerably higher revenue share. FCC statistics show that CLECs account for over 23% of access lines sold to enterprise market customers nationwide. See FCC, *Local Telephone Competition: Status as of June 30, 2003*, Wireline Competition Bureau, December 2003, Table 2. Moreover, in Florida, there is reason to believe that CLECs serve over 34% of business customers in BellSouth's service territory in Florida. See Revised Direct Testimony of John A. Ruscilli, on behalf of BellSouth Telecommunications, Florida Public Service Commission Docket No. 030869-TL, September 23, 2003, at 14.

| 1  | 1. "COGS and other network cost" includes all network-related expenses beyond the cost of the              |
|----|--|
| 2  | loop, including any potential capacity upgrades to the CLEC's existing network that would be               |
| 3  | necessary to provide retail services to new customer locations. For example, this category of              |
| 4  | cost includes the cost of voice switches (both operating expenses and depreciation), switched              |
| 5  | access and other interconnection costs, various transport, transit, and peering costs, cost of             |
| 6  | data network equipment, etc.   |
| 7  | 2. "SG&A" includes all CLEC expenses, including sales and marketing, billing, customer care,               |
| 8  | and overhead expenses.   |
| 9  | These categories are more than sufficient to account for CLECs' expenses. The basis for these              |
| 10 | inputs is detailed in the testimony of BellSouth witness Debra Aron in Docket No. 030851-TP.               |
| 11 | The expenses in the two categories above, which are based on actual CLEC experiences,                      |
| 12 | amount to more than 50% of retail revenue. In addition, contrary to Mr. Dickerson's stated                 |
| 13 | apprehension [at 41], sales and marketing expenses are adjusted for assumed annual rates of                |
| 14 | churn as well as other gross customer additions.   |
| 15 | With respect to the cost of capital that I use, which is commented on by both Mr. Ball (at p.54)           |
| 16 | and Mr. Dickerson (at p.42), I defer to the testimonies of Dr. Billingsley in the switching case           |
| 17 | (030851-TP), where it is explained and defended against the critiques of Dr. Staihr that Mr.               |
| 18 | Dickerson cites.   |
| 19 |  |
| 20 | Finally, Mr. Dickerson's claim [at 41] that the assumed amortization period of 10 years in my              |
| 21 | analysis "is entirely too long to assume a customer would subscribe to competitive services"               |
| 22 | confuses two different issues. <sup>2</sup> My analysis makes no assumption regarding the length of time a |

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<sup>&</sup>lt;sup>2</sup> Mr. Ball displays the same confusion [at 61]. His suggestion for evaluating the net present of value over five years makes little sense from the perspective of a CLEC that wishes to make an investment for the long haul, (continued...)

CLEC would be able to serve a given customer. Rather, it only assumes that the CLEC evaluates the net present value of its entry into a building occupied by multiple business customers over a 10-year period, a standard time period in financial analysis (and used, e.g., in the model

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4 that Mr. Ball attaches to his testimony as Exhibit GJB-3 which amortizes costs over 10.24 years,

5 and in the cost model filed by AT&T in the switching proceeding before this commission). Over

6 this period, the CLEC may end up serving different customers or even several customers at a

7 time. All that matters is that, on average, it be able to secure at least 15% of the revenue

8 available from the building as a whole.

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# 9 Q. MR. BALL SUGGESTS [AT 57] THAT YOUR POTENTIAL DEPLOYMENT TEST

**FOR LOOPS IS DEFICIENT IN THAT IT DOES NOT CONSIDER THE SAME** 

#### 11 **"BUY OR BUILD" DECISION THAT IS PART OF YOUR POTENTIAL**

#### 12 DEPLOYMENT TEST FOR TRANSPORT FACILITIES. DO YOU AGREE?

A. No. There is a fundamental difference between the two situations. Loops deployed to business 13 14 customer locations in buildings are part of a retail facilities-based local exchange service, the revenue from which accrues in the form of spending on that service by end-user business 15 customers. With such a retail service, no "build or buy" decision is involved. That is, I do not 16 consider the circumstance of a CLEC that is currently running a special access line obtained from 17 BellSouth into a customer location and has the option to replace that line with its own facilities. 18 Rather, my analysis focuses on buildings that are presently not served by any means by the 19 CLEC and asks under what revenue and cost circumstances would up to two CLECs find it 20 profitable to deploy their own loops into those buildings. 21

(...continued)

particularly given that many of its upfront costs are likely to be sunk.

1 On the other hand, transport is a wholesale service where the CLEC has a choice of 2 deploying either its own facilities or purchasing/leasing them from the ILEC. The "revenue" in this 3 instance is the cost saved from the forgone option.

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# Q. MR. BALL SUGGESTS [AT 62] THAT AN AT&T STUDY THAT HE INCLUDES WITH HIS TESTIMONY "PRESENTS A MORE REALISTIC DEPICTION OF THE COSTS AND NECESSARY REVENUES FOR A CLEC TO EXTEND ITS NETWORK INTO A NEW BUILDING." PLEASE COMMENT.

9 A. This study is irrelevant for the potential deployment test as defined in the *Triennial Review* Order. First, almost everything in AT&T's study (including distances and prices of wholesale 10 alternatives) appears to reflect national averages for AT&T's network, rather than the specific 11 12 conditions that prevail for the buildings in Florida in my analysis. Second, the AT&T study is a buy-versus-build analysis for loops and, therefore, not suitable for the potential deployment test 13 required by the Triennial Review Order. As explained above, just because it may be more 14 profitable to purchase UNEs or special access service from the ILEC does not mean a CLEC 15 could not profitably deploy its own facilities to a building. In summary, even if the inputs in the 16 17 AT&T study are accurate (a matter I have not investigated), the study itself is non-granular, contrary to the FCC's requirements. The AT&T study does not address whether a CLEC could 18 profitably deploy its own facilities to provide retail services at various customer locations. It is, 19 therefore, irrelevant to the purposes of the building-specific analysis defined by the FCC in the 20 Triennial Review Order. 21

22

#### 23 Q. DOES THIS CONCLUDE YOUR SURREBUTTAL TESTIMONY?

24 A. Yes.

| 1     | BELLSOUTH TELECOMMUNICATIONS, INC.   |
|-------|--|
| 2     | DIRECT TESTIMONY OF A. WAYNE GRAY  |
| 3     | <b>BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION</b>                                      |
| 4     | DOCKET NO. 030852  |
| 5     | December 22, 2003  |
| 6     | ·  |
| 7 Q.  | PLEASE STATE YOUR NAME, YOUR BUSINESS ADDRESS, AND YOUR                                  |
| 8     | POSITION WITH BELLSOUTH TELECOMMUNICATIONS, INC.   |
| 9     | ("BELLSOUTH").   |
| 10    |  |
| 11 A. | My name is A. Wayne Gray. My business address is 675 West Peachtree Street, Atlanta,     |
| 12    | Georgia 30375. My title is Director - Regional Planning and Engineering Center in the    |
| 13    | Network Planning and support organization.   |
| 14    |  |
| 15 Q. | PLEASE SUMMARIZE YOUR BACKGROUND AND EXPERIENCE.   |
| 16    |  |
| 17 A. | I graduated from Georgia Tech in 1979, with a Bachelor of Electrical Engineering         |
| 18    | degree. In 1992, I received a Master of Business Administration degree from Emory        |
| 19    | University. 1 began working for Southern Bell in 1979, in the Equipment Engineering      |
| 20    | organization in Miami, Florida. Over the course of my 24-year career with BellSouth, l   |
| 21    | have held various line and staff positions in Equipment Engineering, Traffic Engineering |
| 22    | (Capacity Management), Infrastructure Planning and Project Management. In November       |
| 23    | 1999, I became Director-Collocation in the Network Planning and Support organization.    |
| 24    | In December 2001, my scope of responsibility was expanded and my title was changed to    |
| 25    | Director - Regional Planning and Engineering Center. In this position, I am responsible  |

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| 1  |    | for ensuring that BellSouth provisions collocation arrangements in the timeframes         |
|----|----|---|
| 2  |    | established by contractual agreements and governmental mandates. I am also responsible    |
| 3  |    | for managing the planning and engineering of BellSouth's Advanced Intelligent Network,    |
| 4  |    | Common Channel Signaling Network, Link Monitoring System, Public Packet Switching         |
| 5  |    | Network, MemoryCall® Service platform, Pooled Internet Access Platforms, and              |
| 6  |    | corporate transport network. My responsibilities also include the activities performed by |
| 7  |    | BellSouth's Numbering and Technology Forecasting groups. In addition, I direct all        |
| 8  |    | switch software upgrades and contract administration for the purchase of network          |
| 9  |    | technologies.   |
| 10 |    |   |
| 11 | Q. | WHAT IS THE PURPOSE OF YOUR TESTIMON Y?   |
| 12 |    |   |
| 13 | A. | The first part of my testimony describes the network architecture an efficient            |
| 14 |    | Competitive Local Exchange Carrier ("CLEC") would utilize to self provide high            |
| 15 |    | capacity loops over which it serves its customers. The second part of my testimony        |
| 16 |    | describes the network architecture an efficient CLEC would utilize to self provide high   |
| 17 |    | capacity interoffice transport facilities. I address Issues 4, 6, 8, 12, 13, 17 and 19 in |
| 18 |    | whole or in part.   |
| 19 |    |   |
| 20 |    | I. HIGH-CAPACITY LOOPS  |
| 21 |    |   |
| 22 | Q. | WHAT DO YOU MEAN BY "HIGH CAPACITY LOOPS?"  |
| 23 |    |   |
| 24 | Α. | The types of loops covered in my testimony are DS1, DS3, and dark fiber. These loops      |
| 25 | i  | are known as "high-capacity loops" because they allow transmission speeds significantly   |

| 1     | higher than the 64 Kbps of voice grade lines. High-capacity loops are typically used in        |
|-------|--|
| 2     | corporate data networks and to provide voice service to enterprise locations requiring a       |
| 3     | large number of lines.   |
| 4     | · · · · · · · · · · · · · · · · · · ·  |
| 5     | "DS1 loop facilities" refer to digital loops having a total transmission speed of 1.544        |
| 6     | Mbps provided over various transmission media including, but not limited to, two-wire          |
| 7     | and four-wire copper, coaxial cable, fiber optics, wireless, radio, and power line facilities. |
| 8     | A DS1 capacity loop contains the equivalent of 24 voice-grade or DS0 channels.                 |
| 9     |  |
| 10    | "DS3 loop facilities" refer to digital loops having a total transmission speed of 44.736       |
| 11    | Mbps provided over various transmission media including, but not limited to, fiber optics,     |
| 12    | coaxial cable, wireless, radio, and power line facilities. A DS3 capacity loop contains the    |
| 13    | equivalent of 28 DS1 channels or 672 DS0 channels.   |
| 14    |  |
| 15    | "Dark fiber" refers to optical transmission loops without attached electronics, through        |
| 16    | which no light is transmitted and no signal is carried. There is no transmission speed         |
| 17    | associated with dark fiber since the transmission speed of the loop depends on the type of     |
| 18    | electronics used to light the fiber.   |
| 19    |  |
| 20 Q. | PLEASE DISCUSS THE CAPACITY LEVELS ACHIEVED WHEN CARRIERS                                      |
| 21    | DEPLOY FIBER-OPTIC BASED TRANSMISSION SYSTEMS.   |
| 22    |  |
| 23 A. | Carriers typically deploy fiber-optic facilities that can operate at a range of capacities     |
| 24    | determined by the electronics attached to them. For example, when laying fiber it makes        |
| 25    | sense to deploy high-capacity, "OCn" facilities so that there will always be enough            |

| 1            | bandwidth to handle the traffic on a given loop. The term "OCn" refers to Optical Carrier   |
|--------------|---|
| 2            | where "n" designates the optical carrier level. The optical carrier level "n" is directly   |
| 3            | related to the quantity of DS3 capacity units the system is capable of handling             |
| 4            | simultaneously. For example, OC48 systems provide capacity for 48 individual DS3            |
| 5            | transmission "pipes". The carrier can then attach electronics to subdivide (or              |
| 6            | "channelize") the available capacity, activating the amount of capacity and number of       |
| 7            | channels needed along the loop. The electronics used to do this channelization of OCn       |
| 8            | facilities into DS1 or DS3 facilities are relatively inexpensive, are widely available, and |
| 9            | can be quickly installed whenever the carrier has demand for DS1 or DS3 facilities.         |
| 10           |   |
| 11 Q.        | ONCE AN OCn FACILITY IS INSTALLED, IS IT CAPABLE OF   |
| 12           | TRANSPORTING DS1 OR DS3 LOOPS?  |
| 13           |   |
| 14 A.        | Yes. As explained in the previous answer, a carrier with channelized OCn facilities is      |
| 15           | operationally ready to provide DS1 or DS3 facilities.                                       |
| 16           |   |
| 17 <b>Q.</b> | PLEASE DISCUSS THE COSTS A CARRIER WOULD INCUR WERE IT TO                                   |
| 18           | CONSTRUCT ITS OWN HIGH CAPACITY LOOP FACILITIES.  |
| 19           |   |
| 20 A.        | There are two types of cost that a carrier would incur the costs of extending the loop      |
| 21           | facility and the other costs of offering service (e.g., sales costs, and general and        |
| 22           | administrative costs). I will describe the first category of costs below; the second        |
| 23           | category is discussed by BellSouth witness Dr. Banerjee.                                    |
| 24           |   |
| 25           |   |

#### 1 Q. WHAT COSTS ARE INCURRED FOR A COMPETITIVE CARRIER TO

#### 2 3

9

EXTEND A LOOP FACILITY TO A PARTICULAR CUSTOMER LOCATION?

4 A. Costs for network extension consist of one-time capital expenditures as well as operating
5 expenses incurred on a recurring basis. These costs are incurred at three points in the
6 network (see Exhibit AWG-1) – at the newly connected building, at the currently
7 collocated wire center or building that the new location is being connected to, and at a
8 "node" along the fiber route itself.

10 Moving from the left of Exhibit AWG-1, the "Off Net Building" is the one that is not 11 connected directly to the existing fiber network. It is sometimes referred to as a "spoke" 12 off the fiber-optic network. At that Off Net Building, one would find the equipment 13 elements listed on the left hand side of Exhibit AGW-1. The Light Guide Cross-connect 14 ("LGX") allows the attachment of individual fiber optic strands (via fiber optic 15 "jumpers") to connectors that allow the fiber to be interfaced with other electronics such 16 as the multiplexers. The fiber optic "pipe" is then channelized into smaller DS1 or DS3 17 transmission paths (dependent on customer demand) via plug-in electronic cards and 18 other cross-connect panels. At the customer's premises, channel-bank equipment is 19 utilized to convert the DS1 or DS3 pipes into individual channels (at DS0 level) via so-20 called D-4 channel bank equipment. The intra-building network cable and termination 21 (INCT) provides the inside wiring required to access the entire customer location. INCT 22 is not always required to be purchased for various reasons so I have made the 23 conservative assumption that the CLEC requires INCT in 50% of the buildings it serves. 24

25

| 1     | Between the Off Net Building and the node on the CLEC's existing fiber-optic network        |
|-------|---|
| 2     | is the fiber optic cable itself. Here, a CLEC would incur the (distance-sensitive) material |
| 3     | cost of the fiber-optic cable, as well as construction fees and other fees paid to use      |
| 4     | another party's poles, ducts or conduits.   |
| 5     |   |
| 6     | At the node location on the CLEC's fiber optic network, the CLEC would incur costs for      |
| 7     | the same types of equipment needed at the Off Net building ( LGX bays, fiber jumpers,       |
| 8     | etc.)   |
| 9     |   |
| 10    | The configuration of the network equipment required at the new and existing wire centers    |
| 11    | to terminate the fiber and provide DS0/DS1/DS3 loops to end-use customers is illustrated    |
| 12    | in Exhibit AWG-2. This diagram shows pictorially the relationship of the individual         |
| 13    | "piece parts" described above.  |
| 14    |   |
| 15 Q. | WHAT ARE THE COSTS FOR THE EQUIPMENT ELEMENTS LISTED?                                       |
| 16    |   |
| 17 A. | Both the capital and operating costs for each piece of equipment is listed in Exhibit       |
| 18    | AWG-3. These numbers reflect the fully installed costs of all equipment, including          |
| 19    | material, labor, all overhead, and taxes. These costs are taken directly from the cost      |
| 20    | study that BellSouth filed in the Commission's most recent UNE cost case, Docket            |
| 21    | No. 990649-TP, and which underlie the UNE rates approved by this Commission.                |
| 22    |   |
| 23    |   |
| 24    |   |
| 25    |   |

#### HOW DO YOU DETERMINE THE QUANTITY OF MULTIPLEXERS AND 1 Q. **DS1/DS3 CARDS NEEDED?** 2 3 4 A. The quantities of network equipment needed scales with demand. We assume that one DS1 circuit equivalent to be provided for every \$500 per month of revenue. After 5 determining the number of DS1 equivalents (N) needed, the requirement of DS1/DS3 6 7 plug-ins is calculated as follows: If $N \le 28$ , number of DS1s = N, number of DS3s = 0 8 9 If N > 28, number of DS1s = max (28, N x 1/3), rounded up to the next integer, number of DS3s = $2/3 \times N/28$ , rounded up to the next integer 10 If more than 3 muldems are needed, equipment is scaled by adding another OC3 11 12 multiplexer, as shown in Exhibit AWG-2. 13 **II. HIGH-CAPACITY TRANSPORT** 14 15 16 Q. WHAT IS A "ROUTE?" 17 18 A. A route is defined in the FCC's rules as "a transmission path between one of an incumbent LEC's wire centers or switches and another of the incumbent LEC's wire 19 centers or switches" within a LATA. Furthermore, "a route between two points (e.g., 20 wire center or switch "a" and wire center or switch "z") may pass through one or more 21 intermediate wire centers or switches (e.g., wire center or switch "x"). Transmission 22 paths between identical end points (e.g., wire center or switch "a" and wire center or 23 switch "z") are the same 'route,' irrespective of whether they pass through the same 24 intermediate wire centers or switches, if any." 47 C.F.R. §51.319(e). 25

7

# IS IT REASONABLE TO ASSUME THAT A CARRIER HAS A "ROUTE" BETWEEN ANY PAIR OF INCUMBENT LEC WIRE CENTERS IN THE SAME LATA WHERE IT HAS OPERATIONAL COLLOCATION ARRANGEMENTS?

5 A. Yes. It is logical and reasonable to assume that a carrier can route traffic between any pair of wire centers within a LATA where it has operational collocation arrangements, 6 i.e. that a carrier's network is fully interconnected. Although, for network and cost 7 efficiency reasons it is unlikely that a CLEC would have a *direct* link between every 8 9 ILEC wire center where it is collocated (e.g., it may instead have a "hub and spoke" layout where traffic is routed through the CLEC's point of presence), that fact is not 10 determinative under the FCC's definition of a "route," because that definition expressly 11 12 states that intermediate wire centers or interconnection points outside the ILECs' facilities (e.g., collocation hotel, data center, CLEC point of presence) may be present on 13 the transmission path between two ILEC wire centers. 14

15

## 16 Q. IF A CARRIER HAS AN OCn TRANSPORT FACILITY TO A COLLOCATION 17 ARRANGEMENT IN AN ILEC WIRE CENTER, CAN THAT CLEC PROVIDE 18 DS3 TRANSPORT?

19

Yes. As described above for loops, carriers typically deploy fiber-optic facilities that can
operate at a range of capacities determined by the electronics attached to them. For
example, when laying fiber it makes sense to deploy high-capacity, OCn facilities so that
there will be enough bandwidth to handle all traffic on a given route and leave additional
capacity available for growth. The carrier can then attach electronics to subdivide (or
"channelize") the available capacity, activating the amount of capacity and number of

| 1     | channels needed along the route. The electronics used to do this channelization of OCn         |
|-------|--|
| 2     | facilities into DS1 or DS3 facilities are relatively inexpensive, are widely available, and    |
| 3     | can be quickly installed whenever the carrier has demand for DS3 transport facilities.         |
| 4     | The fact that the capacity of the facility itself is at the OCn level is therefore independent |
| 5     | of the carrier's ability to provide a dedicated DS1 or DS3 transport route over that           |
| 6     | facility.  |
| 7     |  |
| 8 Q.  | WHEN CARRIERS CONSTRUCT FIBER OPTIC TRANSMISSION SYSTEMS,                                      |
| 9     | IS IT COMMON TO INCLUDE AN ALLOWANCE FOR SPARE (SOMETIMES                                      |
| 10    | <b>REFERRED TO AS "UNLIT") FIBER OPTIC STRANDS?</b>  |
| 11    |  |
| 12 A. | Yes, for network engineering reasons and based on the cost structure of fiber cables, it is    |
| 13    | common to place additional spare fiber strands in anticipation of future needs. Since the      |
| 14    | cost of deploying a fiber cable is mostly fixed (e.g., digging up the streets, attaching cable |
| 15    | to poles, and deploying the fiber) and only slightly correlated with the number of fiber       |
| 16    | strands in the cable, carriers almost always choose to deploy a considerable larger            |
| 17    | number of strands than what they need for their immediate transmission needs. In fact,         |
| 18    | although generally four (4) fibers are enough to support OCn circuits that can provide         |
| 19    | enough capacity for any route (e.g., an OC192 has capacity for 192 DS3s, or 129,024            |
| 20    | simultaneous voice conversation, and this capacity can be multiplied several times over        |
| 21    | with the use of Dense Wave Division Multiplexing ("DWDM") technology), CLECs                   |
| 22    | typically deploy 144 fiber strands or more when extending a cable to large commercial          |
| 23    | buildings or ILEC wire centers.  |
| 24    |  |

#### 1 Q. WHAT FACTORS INFLUENCE A CARRIER'S COSTS TO EXTEND THE 2 CARRIER'S NETWORK TO AN ADDITIONAL WIRE CENTER?

77

3

4 A. A competitive carrier's network is typically fully interconnected. That is, transport can 5 be provided between all of a carrier's collocated wire centers in a LATA. It follows that 6 to add a new wire center to its network, all a carrier has to do is extend its fiber from any 7 location where it is currently present to the new wire center. This will allow it to connect 8 the new wire center with all its others in the LATA. To determine the costs of making 9 such an extension, one must first identify the nearest location, then determine what expenses will be incurred in laying the new fiber and adding equipment to make the fiber 10 11 operationally ready to provide transport.

12

### 13 Q. HOW DO YOU DETERMINE THE COST TO EXTEND THE CARRIER'S 14 NETWORK TO AN ADDITIONAL WIRE CENTER?

15

16 A. Costs for network extension consist of one-time capital expenditures as well as operating
17 expenses incurred on a recurring basis. These costs are incurred at three points in the
18 network (see Exhibit AWG-4) – at the newly connected wire center, at the currently
19 collocated wire center or building that the new location is being connected to, and along
20 the fiber route itself.

21

As is shown starting on the left side of the diagram in Exhibit AWG-4, the network equipment required at the new (the so-called "Off Net" central office) and existing central office to terminate the fiber and provide DS1/DS3 facilities is depicted. Those devices are functionally similar to those used in the context of providing high capacity

| 1  |    | loops to a new customer location that I described earlier in this testimony. For the sake   |
|----|----|---|
| 2  |    | of brevity, I will not repeat that discussion here. Exhibit AWG-5 shows the physical and    |
| 3  |    | functional interaction between those devices. CLECs also have to pay BellSouth              |
| 4  |    | nonrecurring and recurring collocation charges at the new central office, which vary        |
| 5  |    | based on the equipment deployed and the amount of space occupied. Additional costs are      |
| 6  |    | incurred in constructing fiber cable to the new wire center. This cost is a function of the |
| 7  |    | distance, and – depending on the geography – a combination of aerial. buried and            |
| 8  |    | underground fiber may need to be deployed. There are additional pole and conduit costs      |
| 9  |    | associated with aerial and underground fiber, respectively.                                 |
| 10 |    |   |
| 11 |    |   |
| 12 | Q. | WHAT ARE THE COSTS FOR THE EQUIPMENT ELEMENTS LISTED?                                       |
| 13 |    |   |
| 14 | A. | Both the capital and operating costs for each piece of equipment is listed in Exhibit       |
| 15 |    | AWG-6. These numbers reflect the fully installed costs of all equipment, including          |
| 16 |    | material, labor, all overhead, and taxes. These costs are taken directly from the cost      |
| 17 |    | study that BellSouth filed in August 2000, in the Commission's most recent UNE cost         |
| 18 |    | case, Docket No. 990649-TP, and which underlie the UNE rates approved by this               |
| 19 |    | Commission.   |
| 20 |    |   |
| 21 | Q. | HOW DO YOU DETERMINE THE QUANTITY OF MULTIPLEXERS AND                                       |
| 22 |    | DS1/DS3 CARDS NEEDED?   |
| 23 |    |   |
| 24 | A. | The quantities of network equipment needed scales with demand. The number of OC12           |
| 25 |    | and OC48 multiplexers is determined by the number of corresponding circuits demanded.       |

| 1     | The number of OC3 multiplexers is determined by adding the number of OC3 circuits         |
|-------|---|
| 2     | demanded and the OC3 multiplexers needed to handle the demand for DS1 and DS3             |
| 3     | circuits. The requirement of DS1s and DS3s cards is calculated by adding the DS1/DS3      |
| 4     | cards needed to handle demand for these circuits, and the DS1/DS3 cards needed for        |
| 5     | 100% utilization of OC3, 90% utilization of OC12, and 80% utilization of OC48             |
| 6     | multiplexers, assuming equal share of DS1 and DS3 muldems.                                |
| 7     |   |
| 8 Q.  | ISSUES 8, 12, AND 17 RELATED TO TRANSPORT WHOLESALING BY CLECS                            |
| 9     | RAISE THE QUESTION OF WHETHER CROSS-CONNECTS ARE  |
| 10    | AVAILABLE. CAN YOU ADDRESS THIS ISSUE?  |
| 11    |   |
| 12 A. | The availability of cross-connects is discussed in the testimony of BellSouth witness Mr. |
| 13    | John Ruscilli in Docket No. 030851-TP, and I adopt his testimony regarding the            |
| 14    | availability of cross-connects.   |
| 15    |   |
| 16 Q. | DOES THAT CONCLUDE YOUR TESTIMONY?  |
| 17    |   |
| 18 A. | Yes.  |
| 19    |   |
| 20    |   |
| 21    |   |
| 22    |   |
| 23    |   |
| 24    |   |
| 25    |   |

| 1             | <b>BELLSOUTH TELECOMMUNICATIONS. INC.</b>  |
|---------------|--|
| 2             | SURREBUTTAL TESTIMONY OF A. WAYNE GRAY   |
| 3             | BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION   |
| 4             | DOCKET NO. 030852  |
| 5             | FEBRUARY 4, 2004   |
| 6             |  |
| 7 Q.          | PLEASE STATE YOUR NAME. YOUR BUSINESS ADDRESS. AND YOUR                                |
| 8             | POSITION WITH BELLSOUTH TELECOMMUNICATIONS. INC.                                       |
| 9             | ("BELLSOUTH").   |
| 10            |  |
| 11 A.         | My name is A. Wayne Gray. My business address is 675 West Peachtree Street. Atlanta.   |
| 12            | Georgia 30375. My title is Director - Regional Planning and Engineering Center in the  |
| 13            | Network Planning and support organization.   |
| 14            |  |
| 15 <b>Q</b> . | ARE YOU THE SAME A. WAYNE GRAY WHO CAUSED TO BE FILED                                  |
| 16            | DIRECT TESTIMONY BEFORE THE FLORIDA PSC IN THIS CASE?                                  |
| 17            | ·  |
| 18 A.         | Yes.   |
| 19            |  |
| 20 <b>Q</b> . | WHAT IS THE PURPOSE OF YOUR TESTIMONY?   |
| 21            |  |
| 22 A.         | My surrebuttal testimony responds to erroneous assertions made by several witnesses in |
| 23            | their rebuttal testimonies, focusing on general network issues, network costs, and co- |
| 24            | carrier cross-connect issues.  |
| 25            |  |

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#### 1 2

#### **GENERAL NETWORK ISSUES**

# 3 Q. MANY CLEC WITNESSES CONTEND THAT AS A RESULT OF THEIR 4 PARTICULAR NETWORK ARCHITECTURE. THEY DO NOT SELF-PROVIDE 5 DEDICATED TRANSPORT. (E.G., BRADBURY, REBUTTAL P. 15). PLEASE 6 COMMENT.

7

23

While Ms. Padgett will address such arguments in more detail in connection with her 8.4. Ģ triggers analysis, from a network perspective it makes no difference whether a call is routed directly over transport facilities from an ILEC central office A to another ILEC 10 central office B. or whether it is routed indirectly from A to a CLEC collocation 11 arrangement, then to a CLFC switch, and then to B. That is, a CLEC with a network 12 architecture that routes calls from central office A to central office B through an 13 14 intermediate CLEC switch or CLEC collocation is operationally ready to provide 15 transport from A to B. 16 I would also note that, while I am not a lawyer, some of the language contained in the 17 rebuttal testimony of the CLEC witnesses seems to focus more on definitional 18 smokescreens than on actual network issues. For example: 19 20 21 "AT&T does not self-provide any 'dedicated transport' facilities in Florida as that term is defined in the TRO." (Bradbury rebuttal, p. 15) (first emphasis in original: second 22

24 "FDN maintains that it has deployed dedicated transport *meeting the criteria of the self-*25 *provisioning trigger* ....." (Hand rebuttal. p. 4) (emphasis added).

emphasis added).

| 1             | "Neither the 'backhaul' of traffic from an MCI collocation to an MCI switch, which I          |
|---------------|---|
| 2             | discuss below, nor a 'route' consisting of a path between an MCI collocation in wire          |
| 3             | center B and that switch, constitutes 'dedicated transport."" (Hardin rebuttal, p. 6.         |
| 4             | original quotation marks).  |
| 5             |   |
| 6             | All of these witnesses demonstrate the common. Alice-in-Wonderland-like attempt that          |
| 7             | Ms. Padgett describes to define terms as they wish, rather than how the FCC defined           |
| 8             | them.   |
| g             |   |
| 10 <b>Q</b> . | MCI SUGGESTS THAT INDIRECT ROUTES THROUGH A SWITCH  |
| 11            | INTRODUCES ADDITIONAL POINTS OF FAILURE (HARDIN REBUTTAL, P.                                  |
| 12            | 9). CAN YOU ADDRESS THIS?   |
| 13            |   |
| 14 .A.        | Yes. For all practical purpose, an indirect route and a direct route are equivalent.          |
| 15            | Indirect routes with multiple intermediate switches are used all the time in any voice or     |
| 16            | data network and the number of intermediate switches is typically higher for interLATA        |
| 17            | routes (especially for routes across the country). CLECs typically use indirect routes to     |
| 18            | route traffic between two ILEC central offices even if they buy dedicated transport from      |
| 19            | the ILEC since their logical architecture is still a hub and spoke with every circuit passing |
| 20            | through a CLEC switch. I find it puzzling that MCI raises the specter of network failure      |
| 21            | for such a standard architecture, when MCI's network using this design is used by many        |
| 22            | government agencies, and federal contracts typically require network reliability.             |
| 23            | Moreover, even BellSouth's network often uses intermediate switching equipment on             |
| 24            | routes between its central offices, although this fact is invisible to CLECs buying           |
| 25            |   |

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dedicated transport from BellSouth who neither ask nor are able to notice when this kind of routing occurs.

3

# 4 Q. CLECS CONTEND ALSO THAT ADDITIONAL NETWORK EQUIPMENT IS 5 NEEDED BEFORE THEIR FACILITIES CAN PROVIDE TRANSPORT. WHAT 6 IS YOUR RESPONSE?

7

8 A. The point that I was making in my direct testimony, which the CLEC witnesses appear to 9 have overlooked, is that regardless of the *specific* type of network architecture deployed. CLECs are capable of performing the necessary tasks to subdivide capacity as needed. 10 Although AT&T may contend that its network exhibit (JMB-R2) "better depict[s] the full 11 requirements for channelization" (Bradbury rebuttal, p. 25) - my testimony explains that 12 AT&T's alleged "need" for additional equipment is one that can be met easily 13 Moreover, efficient carriers typically order the line cards, multiplexers, and other 14 15 equipment necessary to subdivide capacity on an "as-needed" basis to preserve investment capital. (See Anderson rebuttal, p. 5) ("we are continually optimizing the 16 17 distribution network..."). Likewise, channel banks are widely available and can be provisioned in reasonable time frames. (Dickerson Rebuttal, pp. 22-23.) The fact that a 18 19 given carrier chooses to wait to deploy eoupment does not mean that such a carrier is not "operational ready" to use transport facilities. Put simply, a carrier with the ability to 20 channelize OCn level facilities is "operationally ready" to provide transport at DS1 and 21 DS3 capacity levels. 22

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- 24
- 25

2 MR. DICKERSON, TESTIFYING ON BEHALF OF SPRINT, RAISES A 3 O. NUMBER OF CONCERNS RELATING TO COST ISSUES. HOW DO YOU 4 **RESPOND?** 5 Overall, Mr. Dickerson raises a number of concerns that are simply invalid, with one 7 A exception. BellSouth has revisited its conclusions relating to intrabuilding network cable and termination ("INCT"). Mr. Dickerson criticized BellSouth's assumption that INCT is available 50% of the time. (Dickerson Rebuttal, p. 23). BellSouth has sought 10 additional discovery from CLECs on this issue, and while responses have not yet been 11 12 received. BellSouth has chosen to modify this input with the conservative assumption 13 that a CLEC is required to purchase INCT in 100% of the buildings that it serves. 14 HAVE YOU MADE ANY OTHER MODIFICATIONS TO THE NETWORK 15 O. 16 COST ASSUMPTIONS? 17 I have made an additional change BellSouth has modified the costs associated with 18 A. Light Guide Cross-connect (LGX) equipment by replacing the original cost used with 19 20 that of an entire 12-port panel for the off-net building or central office being connected 21 and to be conservative - a portion of a new panel for existing nodes (even though these 22 nodes are likely to already have spare LGX ports). The revised network costs

23 assumptions are shown in Exhibits AWG-3 and AWG-6, which replace the prior versions 24 of these exhibits.

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#### 84

NETWORK COST ISSUES

6

1

| 1 Q.          | TO ANALYZE THE NETWORK COSTS ASSOCIATED WITH POTENTIAL                                      |
|---------------|---|
| 2             | DEPLOYMENT, IS IT NECESSARY TO INCLUDE "LOCATION SPECIFIC                                   |
| 3             | DATA"(DICKERSON REBUTTAL, P. 3)? SIMILARLY, MR. BALL CONTENDS                               |
| 4             | THAT IT IS INAPPROPRIATE TO USE "HYPOTHETICAL" COSTS  |
| 5             | (REBUTTAL P. 58).   |
| 6             |   |
| 7 A           | The complaints of Mr. Dickerson and Mr. Ball are without merit. To analyze network          |
| 8             | costs the specific location of a route is not required beyond the distance- and capacity-   |
| g             | specific costs already included in the model. The other costs I have addressed arc          |
| 10            | common to any route, and are based upon the costs that this Commission has examined         |
| 11            | using TELRIC principles   |
| 12            |   |
| 13 <b>Q</b> . | MR. DICKERSON CLAIMS THAT SPRINT CANNOT OBTAIN THE SAME                                     |
| 14            | PRICES FOR EQUIPMENT AS BELLSOUTH DOES. (REBUTTAL, P. 35). MR.                              |
| 15            | DICKERSON ALSO DISPUTES BELLSOUTH'S CONDUIT COSTS. FCCA                                     |
| 16            | WITNESS BALL CONTENDS THAT BELLSOUTH'S ANALYSIS SHOULD NOT                                  |
| 17            | USE TELRIC COSTS. (REBUTTAL, PP. 58-59). WHAT IS YOUR RESPONSE?                             |
| 18            |   |
| 19 A          | The costs BellSouth has used are taken directly from the cost study that BellSouth filed in |
| 20            | the Commission's most recent UNE cost case, which underlie the UNE rates approved by        |
| 21            | this Commission and are meant to reflect the costs associated with deploying an efficient   |
| 22            | network. In the absence of evidence to support Mr. Dickerson's claim, these are the most    |
| 23            | appropriate rates to use  |
| 24            |   |
| 25            |   |

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## MR. DICKERSON ALSO CLAIMS (P. 36) THAT BELLSOUTH HAS USED AN INACCURATE PLANT MIX. IS THIS A VALID CLAIM?

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1 Q.

A. No. it is not. Mr. Dickerson takes exception to BellSouth's assumption that for aerial
plant, and relies upon Rule 25-4.088 in support of his view. My reading of this rule does
not support his argument. The applicable rule does not preclude the placement of new
aerial plant, and is cited in full below.

8 0

#### 25-4.088 Applicability.

| 10            | <ol> <li>Extensions of telephone distribution lines applied for after</li> </ol> |
|---------------|--|
| 11            | the effective date of these rules, and necessary to furnish                      |
| 12            | permanent telephone service to all structures within a new                       |
| 13            | percoential subdivision to to new multiple-occupancy pulldings,                  |
| 14            | shall re-made underground, except that the utility may not be                    |
| 15            | required to provide an underground distribution system in those                  |
| 16            | instances where the applicant has elected to install an overhead                 |
| 17            | electric distribution system.  |
| 18            | Sources in providence of the contract of the                                     |
| 19            |  |
| 20 <b>Q</b> . | PLEASE DISCUSS MR. DICKERSON'S CONCERNS RELATING TO RIGHTS-                      |
| 21            | OF-WAY. (PP. 40-41).   |
| 22            |  |

23 A. Mr. Dickerson claims that BellSouth has not considered the costs of delays or access to
 24 rights-of-way and implies that constructing lateral extensions are difficult. In effect, Mr.
 25 Dickerson suggests that there are unique or atypical barriers with constructing extensions.

| 1     | which is not the case. While there are obstacles to any construction project (such as        |
|-------|--|
| 2     | existing water, sewer, and power lines). Sprint does not face any unique obstacle that any   |
| 3     | other provider or BellSouth does not face, which includes access to buildings. All           |
| 4     | carriers incur such costs, and as an experienced carrier Sprint has the experience and       |
| 5     | ability to negotiate such issues.  |
| 6     |  |
| 7     | I would note also that the costs filed with the Commission include what BellSouth pays       |
| 8     | for Right of Way (ROW) and other permitting fees both at the state and the municipality      |
| 9     | level. Specifically, these and other miscelianeous fees are accounted for: 1) in the in-     |
| 10    | plant factor that is applied to the base material cost to determine the fully-loaded capital |
| 11    | cost: 2) in the "Ad Valorem & Other Tax" factor that is used to determine the non-plant-     |
| 12    | specific operating expense. These factors include ROW, municipal license taxes, state        |
| 13    | privilege taxes, state self-insurer's tax, and taxes levied upon the assessed value of       |
| 14    | propeny.   |
| 15    |  |
| 16    | CO-CARRIER CROSS CONNECT ISSUES  |
| 17    |  |
| 18 Q. | ITC DELTACOM WITNESS STEVE BROWNWORTH QUESTIONS THE  |
| 19    | AVAILABILITY OF CO-CARRIER CROSS-CONNECTS ("CCNCs")  |
| 20    | (REBUTTAL, P. 5). PLEASE ADDRESS THIS.   |
| 21    |  |
| 22 A. | The direct testimony of Mr. John Ruscilli and my rebuttal and surrebuttal testimony in       |
| 23    | Docket No. 030851 addresses this concern and provides additional details concerning          |
| 24    | how BellSouth provides co-carrier cross-connects. Without restating this testimony in        |
| 25    | detail. I would note simply that BellSouth makes CCXCs available on a non-                   |

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| 1  |        | discriminatory basis and nothing in Mr. Brownworth's testimony suggests otherwise.       |
|----|--------|--|
| 2  |        | Moreover, there are many CCXCs in place in Florida today, there is language in the       |
| 3  |        | interconnection agreement between ITC^DeltaCom and BellSouth that addresses this         |
| 4  |        | issue. ITC^DeltaCom has the ability to use an approved vendor to install CCXCs for it in |
| 5  |        | BellSouth central offices, and ITC^DeltaCom can avail itself of BellSouth's January      |
| 6  |        | 2004 tariff offering which sets forth the terms whereby BellSouth will provide CCXCs.    |
| 7  |        |  |
| 8  | Q.     | DOES THAT CONCLUDE YOUR TESTIMONY?   |
| 9  | А.     | Yes  |
| 10 |        |  |
| 11 | 52546- |  |
| 12 |        |  |
| 13 |        |  |
| 14 |        |  |
| 15 |        |  |
| 16 |        |  |
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| 24 |        |  |
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| 1  |                 | <b>BELLSOUTH TELECOMMUNICATIONS, INC.</b>                                      |
|----|-----------------|--|
| 2  |                 | DIRECT TESTIMONY OF SHELLEY W. PADGETT   |
| 3  |                 | <b>BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION</b>                            |
| 4  |                 | <b>DOCKET NO. 030852-TP</b>  |
| 5  |                 | <b>DECEMBER 22, 2003</b>   |
| 6  |                 |  |
| 7  | I. INTRODUCTION |  |
| 8  |                 |  |
| 9  | Q.              | PLEASE STATE YOUR NAME, YOUR POSITION WITH BELLSOUTH                           |
| 10 |                 | TELECOMMUNICATIONS, INC. ("BELLSOUTH") AND YOUR BUSINESS                       |
| 11 |                 | ADDRESS.   |
| 12 |                 |  |
| 13 | A.              | My name is Shelley W. Padgett. I am employed by BellSouth as Manager –         |
| 14 |                 | Regulatory and Policy Support in the Interconnection Services organization. My |
| 15 |                 | business address is 675 West Peachtree Street, Atlanta, Georgia 30375.         |
| 16 |                 |  |
| 17 | Q.              | PLEASE PROVIDE A BRIEF DESCRIPTION OF YOUR BACKGROUND                          |
| 18 |                 | AND EXPERIENCE.  |
| 19 |                 |  |
| 20 | A.              | I graduated summa cum laude from Harding University in 1992, with a Bachelor   |
| 21 |                 | of Arts degree in International Studies, and I did post-graduate work at The   |
| 22 |                 | George Washington University. I began my career in market research at          |
| 23 |                 | ALLTEL Telecommunications, Inc., but left to obtain a Master of Business       |
| 24 |                 | Administration degree from Texas A&M University, graduating in 1998. After     |
| 25 |                 | receiving my graduate degree, I began employment with BellSouth in the         |

| 1  |    | Interconnection Services organization. I have held various positions involving      |
|----|----|---|
| 2  |    | Negotiations and Product Management within the BellSouth Interconnection            |
| 3  |    | Services organization. I have held my present position since October 2001.          |
| 4  |    |   |
| 5  | Q. | WHAT IS THE PURPOSE OF YOUR TESTIMONY?  |
| 6  |    |   |
| 7  | A. | The purpose of my testimony is to address all or portions of issue numbers 1-3, 5,  |
| 8  |    | 7-12, 14-18, and 20. For DS1, DS3, and dark fiber loops and transport facilities, I |
| 9  |    | identify the customer locations and interoffice transport routes in BellSouth's     |
| 10 |    | territory in Florida where the facilities triggers established by the FCC in its    |
| 11 |    | Triennial Review Order (TRO) have been satisfied, and where Competitive Local       |
| 12 |    | Exchange Carriers (CLECs) are therefore not impaired without access to              |
| 13 |    | unbundled high-capacity loops or dedicated transport.                               |
| 14 |    |   |
| 15 |    | The first part of my testimony focuses on the facilities triggers for high-capacity |
| 16 |    | loops. I describe the two triggers the FCC established, explain how they should     |
| 17 |    | be applied, and present evidence of where the triggers have been satisfied in       |
| 18 |    | BellSouth's territory in Florida. My testimony demonstrates that the triggers have  |
| 19 |    | been met for DS1, DS3 and dark fiber loops to approximately 100 customer            |
| 20 |    | locations. For these locations, which represent only a very small percentage of     |
| 21 |    | BellSouth's 25,000 total locations served by high-capacity loops in Florida, the    |
| 22 |    | Florida Public Service Commission ("Commission") must find that BellSouth is        |
| 23 |    | not required to continue offering unbundled loops at the capacity level for which   |
| 24 |    | the triggers have been satisfied.   |

| 1  |     | The second part of my testimony focuses on the facilities triggers for dedicated     |
|----|-----|--|
| 2  |     | transport. I describe the two triggers the FCC established, explain how they         |
| 3  |     | should be applied, and present evidence of where the triggers have been satisfied    |
| 4  |     | in BellSouth's territory in Florida. My testimony demonstrates that the triggers     |
| 5  |     | have been met for DS1 dedicated transport on 648 interoffice routes, for DS3         |
| 6  |     | transport on 692 interoffice routes, and for dark-fiber transport on 692 interoffice |
| 7  |     | routes. For these routes, which represent only a small percentage of the 4,800       |
| 8  |     | total routes between BellSouth's central offices in Florida, the Commission must     |
| 9  |     | find that BellSouth is not required to continue offering unbundled dedicated         |
| 10 |     | transport at the capacity level for which the triggers have been satisfied.          |
| 11 |     |  |
| 12 | II. | HIGH-CAPACITY LOOPS  |
| 13 |     |  |
| 14 | Q.  | WHAT TYPES OF LOOPS DO YOU ADDRESS IN YOUR TESTIMONY?                                |
| 15 |     |  |
| 16 |     | A. I discuss DS1, DS3, and dark fiber loops. These loops are described and           |
| 17 |     | defined in BellSouth witness Wayne Gray's testimony.                                 |
| 18 |     |  |
| 19 | Q.  | PLEASE DESCRIBE THE TRIGGERS THAT THE FCC ESTABLISHED TO                             |
| 20 |     | IDENTIFY CUSTOMER LOCATIONS FOR WHICH COMPETING                                      |
| 21 |     | CARRIERS ARE NOT IMPAIRED WITHOUT ACCESS TO UNBUNDLED                                |
| 22 |     | LOOPS FROM THE ILEC.   |
| 23 |     |  |
| 24 | A.  | There are two triggers set forth in the FCC's TRO – the "self-provisioning           |
| 25 |     | trigger" (which applies to DS3 and dark-fiber loops) and the "competitive            |
|    |     |  |

wholesale facilities" trigger (which applies to DS1 and DS3 loops). If, for a given
 loop capacity, any applicable trigger is met for a particular customer location, this
 Commission must find that BellSouth is no longer required to offer unbundled
 loops at that capacity to the location.

5

6 Both triggers are simple, "bright line" tests that require this Commission to count 7 the number of competitors providing loops to a given location. To meet the self-8 provisioning trigger for DS3 or dark-fiber loops, there must be "two or more 9 competing providers not affiliated with each other or with the incumbent LEC. 10 including intermodal providers of service comparable in quality" that have self-11 deployed facilities to a particular location and that are serving customers via those 12 facilities at that location. (\$51.319(a)(4)(ii)(B) and \$51.319(a)(5)(i)(B)). To meet 13 the competitive wholesale facilities trigger for DS1 or DS3 loops, there must be 14 "two or more competing providers not affiliated with each other or with the 15 incumbent LEC, including intermodal providers of service comparable in quality" 16 that have deployed facilities to a particular location and that are offering a loop on 17 a widely available wholesale basis to other carriers seeking to serve customers at 18 the location. (\$51.319(a)(4)(ii) and \$51.319(a)(5)(i)(B)).

19

## 20 Q. IF A CARRIER HAS AN OCn FACILITY TO A CUSTOMER LOCATION, 21 SHOULD IT QUALIFY FOR THE DS3 SELF-PROVISIONING TRIGGER?

22

A. Yes. As BellSouth witness Mr. Wayne Gray discusses in his testimony, carriers
typically deploy fiber-optic facilities that can operate at a range of capacities
determined by the electronics attached to them. For example, when laying fiber it

|    | makes sense to deploy high-capacity, OCn facilities so that there will always be      |
|----|---|
|    | enough bandwidth to handle the traffic on a given loop. The carrier then attaches     |
|    | electronics to subdivide (or "channelize") the available capacity, activating the     |
|    | amount of capacity and number of channels needed along the loop. Indeed, this         |
|    | channelization is extremely common given that the vast majority of retail loops       |
|    | sold are at the DS3 level or below - indeed, according to the market research firm    |
|    | IDC, more than 99% of dedicated enterprise loops, excluding switched voice            |
|    | lines, are provided at DS3 or lower capacity.   |
|    |   |
| Q. | SHOULD AN OCn FACILITY QUALIFY FOR THE DS3 AND DS1                                    |
|    | WHOLESALE TRIGGERS?   |
|    |   |
| A. | Yes, as long as the competitive carrier offers DS1 and DS3 loop facilities to other   |
|    | carriers on a wholesale basis, the capacity of the underlying facility is irrelevant. |
|    | As explained by Mr. Gray, a carrier with channelized OCn facilities is                |
|    | operationally ready to provide DS1 or DS3 facilities and its network can support      |
|    | the sale of DS1 and DS3 loops, so whether the carrier wholesales depends only on      |
|    | its choice of commercial strategy.  |
|    |   |
| Q. | REGARDING THE DARK FIBER TRIGGERS, DOES THE TRO REQUIRE                               |
|    | THE COMPETITIVE CARRIER TO HAVE AVAILABLE UNLIT FIBER                                 |
|    | STRANDS IN ITS LOOP FACILITY?   |
|    |   |
| A. | No. The dark fiber trigger is a self-provisioning trigger and therefore it does not   |
|    | require the provisioning carrier to have additional dark fiber strands (i.e., fiber   |
|    | A.<br>Q.  |

stands that have not been lit by attaching transmission electronics) to potentially
 sell to other carriers. The Order is clear that as long as a competitive carrier
 deployed a fiber loop to a customer location, it should qualify for the dark fiber
 trigger in that customer location.

5

# 6 Q. WHAT EVIDENCE DID YOU USE TO IDENTIFY THE CUSTOMER 7 LOCATIONS WHERE COMPETITIVE CARRIERS HAVE DEPLOYED LOOP 8 FACILITIES THAT QUALIFY FOR THE SELF-PROVISIONING TRIGGERS 9 ON DS3 AND DARK FIBER LOOPS?

10

11 А. I used two data sources to identify customer locations where competitive carriers 12 have deployed loop facilities that qualify for the self-provisioning triggers. 13 First and foremost, I used carriers' discovery responses describing the locations 14 they serve with high-capacity loop facilities. I aggregated these responses by 15 building, counting facilities where carriers confirmed that they have deployed 16 fiber towards the self-provisioning trigger for dark fiber loops, and facilities 17 where carriers confirmed transmission capacities of DS3 or OCn towards the self-18 provisioning trigger for DS3 loops. (For the reasons explained above, many 19 carriers' responses indicated OCn facilities even though carriers rarely sell OCn 20 loops to end users.)

21

Since not every party has fully responded to BellSouth's discovery requests and because BellSouth has not received complete data from non-party carriers, I was required to turn to a third-party vendor for data on carriers from whom I did not have adequate responses. BellSouth purchased data from GeoResults, Inc., an

| 1  |    | independent consulting firm specializing in national business and residential            |
|----|----|--|
| 2  |    | databases, customized database marketing and geo-mapping services, business              |
| 3  |    | level telecom bandwidth, demand and spend estimates, a comprehensive set of              |
| 4  |    | telecom competitive intelligence reports, proprietary wire center boundary               |
| 5  |    | products and spatial analysis tools and services.  |
| 6  |    |  |
| 7  |    | GeoResults provided its GeoLIT <sup>™</sup> Plus Report, listing buildings that contain  |
| 8  |    | fiber-based equipment together with the names of the carriers that own the               |
| 9  |    | equipment. The GeoLIT <sup>TM</sup> Plus Report was further refined to exclude instances |
| 10 |    | where a carrier obtained the loop facility from another carrier (including               |
| 11 |    | BellSouth) on a wholesale basis, leaving only those buildings where the carrier          |
| 12 |    | has deployed its own fiber loop facility capable of providing DS3 and dark fiber         |
| 13 |    | loops.   |
| 14 |    |  |
| 15 | Q. | WHY DO YOU BELIEVE THE GEOLIT™ PLUS REPORT IS A RELIABLE                                 |
| 16 |    | SOURCE OF DATA TO USE IN THE TRIGGERS' ANALYSIS?   |
| 17 |    |  |
| 18 | А. | First let me reiterate that using the GeoResults data is the best alternative            |
| 19 |    | BellSouth had to overcoming the lack of useful discovery data, and that I have           |
| 20 |    | used this data only in instances where a carrier has not provided us with                |
| 21 |    | information through discovery.   |
| 22 |    |  |
| 23 |    | The GeoLIT <sup>TM</sup> Plus Report is a summary of building locations that have been   |
| 24 |    | identified as being served by a fiber facility and lists carriers providing fiber-       |
| 25 |    | based services in those buildings. The report is based on the CLONES (Central            |

Location Online Entry System) database from Telecordia, to which carriers selfreport records of their equipment as it is deployed. This database is widely used in the industry to create, update, and maintain Common Language Location (CLLI) Codes to uniquely identify geographic places and certain types of equipment. GeoResults uses proprietary analysis methodologies and data compilation techniques to determine, from CLONES, which pieces of equipment are fiber-based.

8

9 I also note that the GeoLIT<sup>TM</sup> Plus Report is conservative, because it is does not 10 identify all instances where competitive carriers have deployed fiber-base loop 11 facilities: GeoResults uses a conservative algorithm to identify fiber-based loop 12 facilities, which only identifies facilities as "lit" when it is absolutely clear from 13 the description field in CLONES that the equipment is fiber-based – when in 14 doubt, the facility is not identified as "lit." Moreover, since creating records in 15 CLONES is voluntary, there are not infrequent situations where a competitive 16 carrier deploys a loop facility to a customer location, but fails to create a 17 CLONES record for the facility. Facilities with no records in CLONES are 18 obviously not captured in the GeoLIT<sup>™</sup> Plus Report from GeoResults.

19

### 20 Q. WHICH FACILITIES COULD QUALIFY FOR THE "COMPETITIVE 21 WHOLESALE FACILITIES" TRIGGER FOR DS1 AND DS3 LOOPS?

22

A. Any facility that qualifies for the self-provisioning trigger could potentially meet
 the wholesale facilities trigger also – the only question is whether the provisioning
 carrier chooses to offer loops on it to other carriers on a wholesale basis. Further,

1 because any carrier with an OCn or DS3 facility is operationally able to provide a 2 DS1 loop as described by Mr. Gray, the same set of qualifying facilities should be 3 used for DS1 and DS3 loops. 4 5 HAVE YOU IDENTIFIED CARRIERS THAT USE THEIR FACILITIES TO Q. 6 OFFER LOOPS ON A WHOLESALE BASIS? IF SO, HOW? 7 8 Α. Yes. Although I believe it would be rational for any carrier with its own facilities 9 to wholesale, to be conservative I only identified as a "wholesaler" a carrier for 10 which there is actual evidence that it has entered into wholesale deals or that it 11 actively promotes wholesale service. This evidence was compiled from a number 12 of sources: 13 - Carriers' discovery responses, indicating the offer or purchase of 14 wholesale loops and/or transport 15 - BellSouth's experience in losing wholesale contracts to another carrier 16 - A carrier's own advertisements offering wholesale services 17 - A carrier's public statements and filings indicating willingness to 18 wholesale or revenues from wholesaling 19 - Analyst and industry reports identifying carriers as wholesalers 20 A list of carriers that offer wholesale facilities based on these sources is included 21 as Exhibit SWP-1. 22 23 It is important to note that for a competitive provider to qualify for the wholesale 24 trigger, it does not have to be *currently selling* wholesale services – the Order is 25 clear that the competitive provider only has to be willing to provide wholesale

9

1 service (TRO ¶329). That is, even if it does not currently have a wholesale 2 customer, it would still qualify as long as it is willing to provide wholesale service. Given that, the analysis to determine which competitive carriers offer 3 4 facilities on a wholesale basis can be conducted by carrier, rather than by customer location, because the decision about whether a carrier wholesales is one 5 6 of business model, and so is made at the company level rather than on a location-7 by-location basis. In other words, if a carrier is willing to wholesale high-8 capacity loops at a given customer location, it is also likely to be willing to 9 wholesale high-capacity loops at all other customer locations where it has deployed its own loop facilities. I don't know of any reason to believe that this is 10 not the case and nothing that we learned through discovery suggests otherwise. 11 12 Issue 1: To what specific customer locations have two or more competing providers, 13 14 not affiliated with each other or the ILEC, including intermodal providers of service comparable in quality to that of the ILEC, deployed their own DS1 facilities, 15 16 (including leased, purchase or UNE dark fiber with the carrier's own optronics attached to activate the fiber) and offer DS1 loops over their own facilities on a 17 widely available basis to other carriers? For each such location, do the wholesale 18 19 providers have access to the entire customer location, including each individual unit 20 within the location? 21

- 22
- 23

1 Q. HAVE YOU IDENTIFIED LOCATIONS THAT MEET THE DS1 2 WHOLESALE FACILITIES TRIGGER? IF SO, PLEASE IDENTIFY THOSE 3 LOCATIONS. 4 5 A. Yes. The customer locations that meet the definition in Issue 1, and that, 6 therefore, satisfy the wholesale trigger for DS1 loops, are listed in Exhibit SWP-2. 7 Exhibits SWP-1 and SWP-3 provide supporting evidence used in the analysis. 8 Exhibit SWP-3 shows, by location, the carriers with high-capacity loops deployed 9 in Florida and the capacities the carrier is capable of providing to that location. 10 As previously discussed, Exhibit SWP-1 lists carriers that are willing to offer 11 services on a wholesale basis. 12 13 In its discovery requests, BellSouth asked carriers to specifically identify barriers 14 to access that they faced in particular locations. Unless a carrier identified a 15 specific barrier, BellSouth assumed that the carrier has access to the entire 16 premises. 17 18 Issue 2: To what specific customer locations have two or more competing providers, 19 not affiliated with each other or the ILEC, including intermodal providers of service 20 comparable in quality to that of the ILEC, either (1) deployed their own DS3 21 facilities and actually serve customers via those facilities or (2) deployed DS3 22 facilities by attaching their own optronics to activate dark fiber obtained under a 23 long-term indefeasible right of use and actually serve customers via those facilities 24 at that location? 25

11

| 1  | Q.     | HAVE YOU IDENTIFIED LOCATIONS THAT MEET THE DS3 SELF-                               |
|----|--------|---|
| 2  |        | PROVISIONING TRIGGER? IF SO, PLEASE IDENTIFY THOSE                                  |
| 3  |        | LOCATIONS.  |
| 4  |        |   |
| 5  | А.     | Yes. The customer locations that meet the definition in Issue 2, and that,          |
| 6  |        | therefore, satisfy the self-deployment trigger for DS3 loops, are listed in Exhibit |
| 7  |        | SWP-4. Exhibits SWP-1 and SWP-3 provide supporting evidence used in the             |
| 8  |        | analysis, as described above.   |
| 9  |        |   |
| 10 | Issue  | 3: To what specific customer locations have two or more competing providers,        |
| 11 | not af | filiated with each other or the ILEC, including intermodal providers of service     |
| 12 | comp   | arable in quality to that of the ILEC, deployed their own DS3 facilities            |
| 13 | (inclu | ding leased, purchased or UNE dark fiber with the carrier's own optronics           |
| 14 | attacl | red to activate the fiber) and offer DS3 loops over their own facilities on a       |
| 15 | widel  | y available wholesale basis to other carriers? For each such location, do the       |
| 16 | whole  | esale providers have access to the entire customer location, including each         |
| 17 | indivi | dual unit within the location?  |
| 18 |        |   |
| 19 | Q.     | HAVE YOU IDENTIFIED LOCATIONS THAT MEET THE DS3                                     |
| 20 |        | WHOLESALE FACILITIES TRIGGER? IF SO, PLEASE IDENTIFY THOSE                          |
| 21 |        | LOCATIONS.  |
| 22 |        |   |
| 23 | A.     | Yes. The customer locations that meet the definition in Issue 3, and that,          |
| 24 |        | therefore, satisfy the wholesale trigger for DS3 loops, are also listed in Exhibit  |
|    |        |   |

| 1  |       | SWP-4. Exhibits SWP-1 and SWP-3 provide supporting evidence used in the               |
|----|-------|---|
| 2  |       | analysis, as described above.   |
| 3  |       |   |
| 4  |       | In its discovery requests, BellSouth asked carriers to specifically identify barriers |
| 5  |       | to access that they faced in particular locations. Unless a carrier identified a      |
| 6  |       | specific barrier, BellSouth assumed that the carrier has access to the entire         |
| 7  |       | premises.   |
| 8  |       |   |
| 9  | Issue | 5: To what specific customer locations have two or more competing providers           |
| 10 | deplo | yed their own dark fiber facilities, including dark fiber owned by the carrier        |
| 11 | or ob | tained under a long-term indefeasible right of use (but excluding ILEC                |
| 12 | unbu  | ndled dark fiber)?  |
| 13 |       |   |
| 14 | Q.    | HAVE YOU IDENTIFIED LOCATIONS THAT MEET THE DARK FIBER                                |
| 15 |       | SELF-DEPLOYMENT TRIGGER? IF SO, PLEASE IDENTIFY THOSE                                 |
| 16 |       | LOCATIONS.  |
| 17 |       |   |
| 18 | A.    | Yes. The customer locations that meet the definition in Issue 5, and that,            |
| 19 |       | therefore, satisfy the self-deployment trigger for dark fiber loops, are listed in    |
| 20 |       | Exhibit SWP-5. Exhibits SWP-1 and SWP-3 provide supporting evidence used in           |
| 21 |       | the analysis, as described above.   |
| 22 |       |   |
| 23 |       |   |
| 24 |       |   |
| 25 |       |   |

#### III. HIGH-CAPACITY TRANSPORT

2

Q. PLEASE DESCRIBE THE TRIGGERS THAT THE FCC ESTABLISHED TO
IDENTIFY ROUTES FOR WHICH COMPETING CARRIERS ARE NOT
IMPAIRED WITHOUT ACCESS TO UNBUNDLED DEDICATED
INTEROFFICE TRANSPORT FACILITIES.

7

A. There are two triggers set forth in the TRO – the "self-provisioning trigger"
(which applies to DS3 and dark-fiber transport) and the "competitive wholesale
facilities" trigger (which applies to DS1, DS3, and dark-fiber transport). If, for a
given transport capacity, any applicable trigger is met on a particular route, the
Commission must find that BellSouth is no longer required to offer unbundled
dedicated transport at that capacity on the route.

14

15 Both triggers are simple, "bright line" tests that require the Commission to count 16 the number of competitors on a given route. To meet the self-provisioning trigger 17 for DS3 or dark-fiber transport, there must be "three or more competing providers 18 not affiliated with each other or with the incumbent LEC, including intermodal providers of service comparable in quality" that have self-deployed fiber transport 19 20 facilities along a particular route and that are operationally ready to use those facilities to provide transport along that route. (47 C.F.R. §§ 51.319(e)(2)(i)(A) 21 22 and (e)(3)(i)(A)). To meet the competitive wholesale facilities trigger for DS1, 23 DS3, or dark-fiber transport, there must be "two or more competing providers not affiliated with each other or with the incumbent LEC, including intermodal 24 25 providers of service comparable in quality" that are operationally ready and

| 1  |    | willing to offer wholesale transport of a given capacity along a particular route. |
|----|----|--|
| 2  |    | (47 C.F.R. §§51.319(e)(1)(ii), (e)(2)(i)(B) and (e)(3)(i)(B)).                     |
| 3  |    |  |
| 4  | Q. | WHAT IS A "ROUTE," AS THE TERM IS USED IN THE FCC'S TRIGGERS?                      |
| 5  |    |  |
| 6  | A. | A route is defined in the FCC's rules as "a transmission path between one of an    |
| 7  |    | incumbent LEC's wire centers or switches and another of the incumbent LEC's        |
| 8  |    | wire centers or switches" within a LATA. Furthermore "a route between two          |
| 9  |    | points (e.g., wire center or switch "A" and wire center or switch "Z") may pass    |
| 10 |    | through one or more intermediate wire centers or switches (e.g., wire center or    |
| 11 |    | switch "X"). Transmission paths between identical end points (e.g., wire center    |
| 12 |    | or switch "A" and wire center or switch "Z") are the same 'route,' irrespective of |
| 13 |    | whether they pass through the same intermediate wire centers or switches, if any." |
| 14 |    | (47 C.F.R. §51.319(e)).  |
| 15 |    |  |
| 16 | Q. | IS IT REASONABLE TO ASSUME THAT A CARRIER HAS A "ROUTE"                            |
| 17 |    | BETWEEN ANY PAIR OF INCUMBENT LEC WIRE CENTERS IN THE                              |
| 18 |    | SAME LATA WHERE IT HAS OPERATIONAL COLLOCATION                                     |
| 19 |    | ARRANGEMENTS?  |
| 20 |    |  |
| 21 | A. | Yes. As explained in Mr. Gray's testimony, it is logical and reasonable to         |
| 22 |    | assume that a carrier's network within a LATA is fully interconnected and no       |
| 23 |    | discovery response received by BellSouth indicated otherwise. Additionally,        |
| 24 |    | both FPL FiberNet and Time Warner Telecom indicated that any point on their        |
| 25 |    | network may be connected to any other point on the network. FPL FiberNet's         |

1 response to the Staff's Request for Discovery states, "All on-net locations are 2 accessible (sic) to all other on-net locations and are not limited to the existing 3 circuits documented below." Time Warner's response to the Staff's Request for 4 Discovery contains a note that states, "TWTC has or can provision over its own 5 facilities transport routes from any of its cages to any of its cages." Another note 6 says, "In Florida where TWTC has its own intercity network, TWTC is able to 7 provision high capacity transport circuits between all cage locations in the state." 8 9 **O**. IF A CARRIER HAS AN OCn TRANSPORT FACILITY TO A 10 COLLOCATION ARRANGEMENT IN AN ILEC WIRE CENTER, DOES IT 11 MEET THE "OPERATIONALLY READY" CONDITION OF THE DS3 SELF-12 **PROVISIONING TRIGGER?** 13 14 A. Yes. The FCC's rules say that to count toward the trigger, the competing provider 15 should have "deployed its own transport facilities and [be] operationally ready to 16 use those transport facilities to provide dedicated DS3 transport along the 17 particular route." (47 C.F.R. §51.319(e)(2)(i)(1)). In reality, carriers typically 18 deploy fiber-optic facilities that can operate at a range of capacities determined by 19 the electronics attached to them. For example, when laying fiber it makes sense 20 to deploy high-capacity, OCn facilities so that there will be enough bandwidth to 21 handle all traffic on a given route and leave room for growth. The carrier can then attach electronics to subdivide (or "channelize") the available capacity, activating 22 23 the amount of capacity and number of channels needed along the route. As Mr. 24 Gray explains, the electronics used to do this channelization of OCn facilities into 25 DS1 or DS3 facilities are relatively inexpensive, are widely available, and can be

16

| 1  |    | quickly installed whenever the carrier has demand for DS3 transport facilities.       |
|----|----|---|
| 2  |    | The fact that the capacity of the facility itself is at the OCn level is therefore    |
| 3  |    | independent of the carrier's ability to provide a dedicated DS1 or DS3 transport      |
| 4  |    | route over that facility.   |
| 5  |    |   |
| 6  | Q. | SHOULD AN OCn FACILITY QUALIFY FOR THE DS3 AND DS1                                    |
| 7  |    | WHOLESALE TRIGGERS?   |
| 8  |    |   |
| 9  | A. | Yes, as long as the competitive carrier offers DS1 and DS3 transport to other         |
| 10 |    | carriers on a wholesale basis, the capacity of the underlying facility is irrelevant. |
| 11 |    | As explained above, a carrier with channelized OCn facilities is operationally        |
| 12 |    | ready to provide DS1 or DS3 facilities - its network can support the sale of DS1      |
| 13 |    | and DS3, so whether the carrier wholesales or not depends only on its commercial      |
| 14 |    | strategy.   |
| 15 |    |   |
| 16 | Q. | REGARDING THE DARK FIBER TRIGGERS, DOES THE TRO REQUIRE                               |
| 17 |    | THE COMPETITIVE CARRIER TO HAVE AVAILABLE UNLIT FIBER                                 |
| 18 |    | STRANDS IN ITS COLLOCATION ARRANGEMENT?   |
| 19 |    |   |
| 20 | A. | This requirement in the TRO applies only for the wholesale trigger, which             |
| 21 |    | requires the competitive provider be ready to provide dark fiber facilities to other  |
| 22 |    | carriers. For the self-provisioning trigger, the TRO is clear that as long as a       |
| 23 |    | competitive carrier deployed fiber transmission facilities to a collocation           |
| 24 |    | arrangement, it should qualify for the dark fiber trigger in that wire center (TRO    |

| 1  |    | ¶408). There is no condition on the existence of extra dark fiber strands that have    |
|----|----|--|
| 2  |    | not yet been lit.  |
| 3  |    |  |
| 4  | Q. | HOW DID YOU IDENTIFY ROUTES WHERE COMPETITIVE CARRIERS                                 |
| 5  |    | HAVE DEPLOYED FACILITIES THAT QUALIFY FOR THE SELF-                                    |
| 6  |    | PROVISIONING TRIGGER FOR DS3 AND DARK FIBER ROUTES?                                    |
| 7  |    |  |
| 8  | A. | I initially hoped to rely primarily on discovery responses from competitive            |
| 9  |    | carriers. Unfortunately, to date, BellSouth has received far fewer responses than      |
| 10 |    | expected, so we have been forced to rely heavily on our own billing and                |
| 11 |    | operations data regarding collocation arrangements and fiber entrance facilities.      |
| 12 |    | Using discovery and these internal data, a list of fiber-based collocations for each   |
| 13 |    | competitive carrier was created and used to generate all the potential transport       |
| 14 |    | routes for a given carrier using the assumption that competitive carriers can route    |
| 15 |    | traffic between any pair of fiber-based collocation arrangements in a LATA.            |
| 16 |    | Furthermore, if a carrier has a collocation arrangement in a BellSouth wire center     |
| 17 |    | and it has pulled its own fiber to the collocation, it is reasonable to assume that it |
| 18 |    | should qualify for the self-provisioning trigger for both dark fiber and DS3           |
| 19 |    | dedicated transport (due to the channelization I described above).                     |
| 20 |    |  |
| 21 | Q. | WHICH FACILITIES COULD QUALIFY FOR THE 'COMPETITIVE                                    |
| 22 |    | WHOLESALE FACILITIES" TRIGGER FOR DS1, DS3 AND DARK FIBER                              |
| 23 |    | TRANSPORT?   |
| 24 |    |  |

1 Α. Any route that qualifies for the self-provisioning trigger could meet the wholesale 2 facilities trigger also - the only question is whether the competitive carrier 3 chooses to offer transport on it to other carriers on a wholesale basis. Further, 4 because any carrier with an OCn or DS3 facility is operationally able to provide 5 DS1 transport, I assumed the same set of qualifying facilities for DS1 transport as 6 for DS3 transport. Additional DS3 and DS1 facilities that qualify for wholesale 7 are included only if we learned through discovery of facilities that meet the 8 conditions of the wholesale triggers but not the self-provisioning triggers (i.e., the 9 carrier does not own the underlying fiber used in the transport facility). 10 11 Finally, for dark fiber the wholesale trigger requires the competitive provider to 12 have unused dark fiber to sell to other carriers and that requesting carriers are able 13 to obtain reasonable and nondiscriminatory access to the competing providers' 14

15 (§51.319(e)(3)(i)(B)). For the reasons explained by Mr. Gray, it is logical to 16 assume that interoffice facilities have spare fiber strands. Furthermore, our billing 17 records indicate that most CLECs that pulled fiber into BellSouth's wire centers requested 2 cables of 24 strands each, leaving plenty of spare strands to 18 19 wholesale. In short, unless we learn through discovery that carriers do not have extra dark fiber, it is reasonable to assume that any dark fiber facility that meets 20 21 the self-provisioning trigger may count toward the wholesale trigger also, if the 22 provisioning CLEC chooses to wholesale them.

termination points through a cross-connect to the providers' collocations.

23

#### 1 Q. HAVE YOU IDENTIFIED CARRIERS THAT USE THEIR FACILITIES TO 2 OFFER DEDICATED TRANSPORT ON A WHOLESALE BASIS? IF SO, 3 HOW? 4 5 Yes. Since dedicated transport and high-capacity loops are two components of A. 6 the same wholesale product, commonly known as dedicated access or special 7 access, the carriers that offer dedicated transport on a wholesale basis, where they 8 have facilities, are the same as for loops. A list of carriers that offer wholesale 9 facilities is included as Exhibit SWP-6 (see my loop testimony above for a 10 description of how this list was compiled). 11 12 As I explained for high-capacity loops, it is important to note that for a 13 competitive provider to qualify for the wholesale trigger, it does not have to be 14 currently selling wholesale services - the Order is clear that the competitive 15 provider only has to be willing to provide wholesale service (TRO ¶412). 16 17 Issue 7: Along what particular routes have two or more competing providers, not 18 affiliated with each other or the ILEC, including intermodal providers of service 19 comparable in quality to that of the ILEC, deployed their own DS1 level dedicated 20 transport facilities (including leased, purchased or UNE dark fiber with the 21 carrier's own optronics attached to activate the fiber) and are willing to provide 22 DS1 level transport immediately over their own facilities on a widely available basis 23 to other carriers? 24

1 Q. HAVE YOU IDENTIFIED ROUTES THAT MEET THE DS1 WHOLESALE 2 FACILITIES TRIGGER? IF SO, PLEASE IDENTIFY THOSE ROUTES. 3 4 A. Yes. The routes that satisfy the wholesale trigger for DS1 transport, and that, 5 therefore, meet the definition in Issue 7, are listed in Exhibit SWP-7. Supporting 6 evidence is presented in Exhibits SWP-6 and SWP-8. Exhibit SWP-8 shows, by 7 route, the carriers that have deployed transport facilities in Florida and the 8 capacities the carrier is capable of providing on that route. Exhibit SWP-6 lists 9 carriers that are willing to offer transport services on a wholesale basis and 10 whether the carrier has provided discovery responses to BellSouth. 11 12 Issue 8: For any particular route where at least two competing providers will provide wholesale DS1 dedicated transport, do both competing providers' facilities 13 14 terminate in collocation arrangements at an ILEC premise or a similar 15 arrangement in a non-ILEC premise? If so, can requesting carriers obtain 16 reasonable and nondiscriminatory access to those competing providers' termination 17 points through a cross-connect to the providers' collocations either at the ILEC 18 premise or similar arrangement if located at a non-ILEC premise? 19 20 Q. DO THE FACILITIES USED TO DETERMINE THE ROUTES IDENTIFIED 21 IN EXHIBIT SWP-7 TERMINATE IN A COLLOCATION ARRANGEMENT? 22 23 A. Yes. The methodology used to identify routes that meet the trigger assures that 24 all the facilities used in the trigger analysis terminate in collocation arrangements 25 on both ends.

21

| 1  | Issu   | e 9: Along what particular routes have three or more competing providers, not      |  |  |
|----|--|--|--|--|
| 2  | affili   | ated with each other or the ILEC, including intermodal providers of service        |  |  |
| 3  | com  | comparable in quality to that of the ILEC, deployed their own DS3 level dedicated  |  |  |
| 4  | tran   | sport facilities (including leased, purchased or UNE dark fiber with the           |  |  |
| 5  | carr   | ier's own optronics attached to activate the fiber) and are operationally ready to |  |  |
| 6  | use t  | hose transport facilities?   |  |  |
| 7  |  |  |  |  |
| 8  | Q.   | HAVE YOU IDENTIFIED ROUTES THAT MEET THE DS3 SELF-                                 |  |  |
| 9  |  | PROVISIONING TRIGGER? IF SO, PLEASE IDENTIFY THOSE ROUTES.                         |  |  |
| 10 |  |  |  |  |
| 11 | A.   | Yes. The routes that satisfy the self-provisioning trigger for DS3 transport, and  |  |  |
| 12 |  | that, therefore, meet the definition in Issue 9 are listed in Exhibit SWP-9.       |  |  |
| 13 |  | Supporting evidence is presented in Exhibits SWP-6 and SWP-8, as described         |  |  |
| 14 |  | above.   |  |  |
| 15 |  |  |  |  |
| 16 | Issue  | e 10: For any particular route where at least three competing providers have       |  |  |
| 17 | self-j   | provisioned DS3 level dedicated transport facilities, do the competing providers'  |  |  |
| 18 | facilities terminate in collocation arrangements at an ILEC premise or similar |  |  |  |
| 19 | arra   | ngement in a non-ILEC premise?   |  |  |
| 20 |  |  |  |  |
| 21 | Q.   | DO THE FACILITIES USED TO DETERMINE THAT THE ROUTES                                |  |  |
| 22 |  | IDENTIFIED IN EXHIBIT SWP-9 TERMINATE IN A COLLOCATION                             |  |  |
| 23 |  | ARRANGEMENT?   |  |  |
| 24 |  |  |  |  |

A. Yes. The methodology used to identify routes that meet the trigger assures that
 all the facilities used in the trigger analysis terminate in collocation arrangements
 on both ends.

4

| 5  | Issue 1  | 11: Along what particular routes have two or more competing providers, not         |
|----|----------|--|
| 6  | affiliat | ted with each other or the ILEC, including intermodal providers of service         |
| 7  | compa    | rable in quality to that of the ILEC, deployed their own DS3 level dedicated       |
| 8  | transp   | ort facilities (including leased, purchased or UNE dark fiber with the             |
| 9  | carrie   | r's own optronics attached to activate the fiber), are operationally ready to      |
| 10 | use the  | ose transport facilities, and are willing to provide DS3 level dedicated           |
| 11 | transp   | ort immediately over their facilities on a widely available wholesale basis to     |
| 12 | other o  | carriers?  |
| 13 |          |  |
| 14 | Q.       | HAVE YOU IDENTIFIED ROUTES THAT MEET THE DS3 WHOLESALE                             |
| 15 |          | FACILITIES TRIGGER? IF SO, PLEASE IDENTIFY THOSE ROUTES.                           |
| 16 |          |  |
| 17 | A.       | Yes. The routes that satisfy the wholesale trigger for DS3 transport, and that,    |
| 18 |          | therefore, meet the definition in Issue 11 are listed in Exhibit SWP-9. Supporting |

19 evidence is presented in Exhibits SWP-6 and SWP-8, as described above.

20

Issue 12: For any particular route where at least two competing providers will provide wholesale DS3 level dedicated transport, do both competing providers' facilities terminate in collocation arrangements at an ILEC premise or a similar arrangement in a non-ILEC premise? If so, can requesting carriers obtain reasonable and nondiscriminatory access to those competing providers' termination

| 1  | point   | s through a cross-connect to the providers' collocations either at the ILEC           |
|----|---------|---|
| 2  | prem    | ise or similar arrangement if located at a non-ILEC premise?                          |
| 3  |         |   |
| 4  | Q.      | DO THE FACILITIES USED TO DETERMINE THAT THE ROUTES                                   |
| 5  |         | IDENTIFIED IN EXHIBIT SWP-9 TERMINATE IN A COLLOCATION                                |
| 6  |         | ARRANGEMENT?  |
| 7  |         |   |
| 8  | A.      | Yes. The methodology used to identify routes that meet the trigger assures that       |
| 9  |         | all the facilities used in the trigger analysis terminate in collocation arrangements |
| 10 |         | on both ends.   |
| 11 |         |   |
| 12 | Issue   | 14: Along what particular routes have three or more competing providers, not          |
| 13 | affilia | ted with each other or the ILEC deployed their own dark fiber dedicated               |
| 14 | trans   | port facilities?  |
| 15 |         |   |
| 16 | Q.      | HAVE YOU IDENTIFIED ROUTES THAT MEET THE DARK FIBER SELF-                             |
| 17 |         | PROVISIONING TRIGGER? IF SO, PLEASE IDENTIFY THOSE ROUTES.                            |
| 18 |         |   |
| 19 | A.      | Yes. The routes that satisfy the self-provisioning trigger for dark fiber transport,  |
| 20 |         | and that, therefore, meet the definition in Issue 9 are listed in Exhibit SWP-10.     |
| 21 |         | Supporting evidence is presented in Exhibits SWP-6 and SWP-8, as described            |
| 22 |         | above.  |
| 23 |         |   |
| 24 | Issue   | 15: For any particular route where at least three competing providers have            |
| 25 | self-p  | rovisioned dark fiber dedicated transport facilities, do the competing                |

| 1  | providers' facilities terminate in collocation arrangements at an ILEC premise or |   |
|----|---|---|
| 2  | simila  | r arrangement in a non-ILEC premise?  |
| 3  |   |   |
| 4  | Q.  | DO THE FACILITIES USED TO DETERMINE THAT THE ROUTES                                   |
| 5  |   | IDENTIFIED IN EXHIBIT SWP-10 TERMINATE IN A COLLOCATION                               |
| 6  |   | ARRANGEMENT?  |
| 7  |   |   |
| 8  | A.  | Yes. The methodology used to identify routes that meet the trigger assures that       |
| 9  |   | all the facilities used in the trigger analysis terminate in collocation arrangements |
| 10 |   | on both ends.   |
| 11 |   |   |
| 12 | Issue   | 16: Along what particular routes have two or more competing providers, not            |
| 13 | affilia   | ted with each other or the ILEC, deployed their own dark fiber transport              |
| 14 | facilit   | ies (including dark fiber obtained from an entity other than the ILEC), are           |
| 15 | opera   | tionally ready to lease or sell those transport facilities to provide transport       |
| 16 | along   | the route, and are willing to provide dark fiber immediately over their               |
| 17 | facilit   | ies on a widely available wholesale basis to other carriers?                          |
| 18 |   |   |
| 19 | Q.  | HAVE YOU IDENTIFIED ROUTES THAT MEET THE DARK FIBER                                   |
| 20 |   | WHOLESALE FACILITIES TRIGGER? IF SO, PLEASE IDENTIFY THOSE                            |
| 21 |   | ROUTES.   |
| 22 |   |   |
| 23 | A.  | Yes. The routes that satisfy the wholesale trigger for dark fiber transport, and      |
| 24 |   | that, therefore, meet the definition in Issue 16 are listed in Exhibit SWP-10.        |

1 Supporting evidence is presented in Exhibits SWP-6 and SWP-8, as described 2 above. 3 4 Issue 17: For any particular route where at least two competing providers will 5 provide wholesale dark fiber, do both competing providers' facilities terminate in 6 collocation arrangements at an ILEC premise or a similar arrangement in a non-7 ILEC premise? If so, can requesting carriers obtain reasonable and 8 nondiscriminatory access to those competing providers' termination points through 9 a cross-connect to the providers' collocations either at the ILEC premise or similar 10 arrangement if located at a non-ILEC premise? 11 12 Q. DO THE FACILITIES USED TO DETERMINE THAT THE ROUTES 13 **IDENTIFIED IN EXHIBIT SWP-10 TERMINATE IN A COLLOCATION** 14 **ARRANGEMENT?** 15 Yes. The methodology used to identify routes that meet the trigger assures that 16 А. 17 all the facilities used in the trigger analysis terminate in collocation arrangements 18 on both ends. 19 20 Issue 18: For any particular route where at least two competing providers will provide such wholesale dark fiber, do these providers have sufficient quantities of 21 dark fiber available to satisfy current demand along that route? If not, should the 22 wholesale trigger for dark fiber be determined to be satisfied along that route? 23 24

26

1 Q. DO THE PROVIDERS USED TO DETERMINE THAT THE ROUTES 2 IDENTIFIED IN EXHIBIT SWP-10 HAVE SUFFICIENT QUANTITIES OF 3 DARK FIBER AVAILABLE TO SATISFY DEMAND ALONG THAT 4 **ROUTE?** 5 6 A. Yes. For the reasons explained above, we assume that there is enough spare fiber 7 to wholesale unless carriers tell us otherwise through discovery. In those 8 instances, the transport facility is not included in Exhibit SWP-10. Therefore I 9 believe that there are sufficient quantities of dark fiber in all routes in Exhibit 10 SWP-10 to satisfy current demand. 11 12 Issue 20: If unbundling requirements for loops at customer-specific locations or dedicated transport along a specific route are eliminated, what are the appropriate 13 14 transition period and requirements, if any, after which a CLEC no longer is entitled 15 to these loops or transport under Section 251(c)(3)? 16 17 Q. FOR LOCATIONS AND ROUTES WHERE ONE OR MORE OF THE 18 TRIGGERS IS MET, AND THERE IS THEREFORE NO IMPAIRMENT AT 19 THOSE LOCATIONS AND ALONG THOSE ROUTES, WHAT IS THE 20 **APPROPRIATE TRANSITION PERIOD?** 21 22 A. BellSouth will continue to offer loops and transport at a market rate so a transition 23 period is unnecessary. However, if the Commission determines that a transition 24 period is required, 90 days is reasonable.

25

### 1 IV. CONCLUSION

| 3 | Q. | ARE YOU SUBMITTING THE FINAL LIST OF ROUTES AND BUILDINGS                        |
|---|----|--|
| 4 |    | WHERE YOU CLAIM THE TRIGGERS FOR DEDICATED TRANSPORT OR                          |
| 5 |    | LOOPS, RESPECTIVELY, HAVE BEEN SATISFIED?  |
| 6 |    |  |
| 7 | A. | No. We reserve the right to expand list of locations and routes based on further |
| 8 |    | discovery responses from carriers.   |
| 9 |    |  |
|   |    |  |

- 10 Q. DOES THIS CONCLUDE YOUR TESTIMONY?
- 12 A. Yes.

| 1  |    | <b>BELLSOUTH TELECOMMUNICATIONS, INC.</b>  |
|----|----|--|
| 2  |    | SUPPLEMENTAL DIRECT TESTIMONY OF SHELLEY W. PADGETT                              |
| 3  |    | <b>BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION</b>                              |
| 4  |    | <b>DOCKET NO. 030852-TP</b>  |
| 5  |    | <b>JANUARY 9, 2004</b>   |
| 6  |    |  |
| 7  | Q. | PLEASE STATE YOUR NAME, YOUR POSITION WITH BELLSOUTH                             |
| 8  |    | TELECOMMUNICATIONS, INC. ("BELLSOUTH") AND YOUR BUSINESS                         |
| 9  |    | ADDRESS.   |
| 10 |    |  |
| 11 | A. | My name is Shelley W. Padgett. I am employed by BellSouth as Manager –           |
| 12 |    | Regulatory and Policy Support in the Interconnection Services organization. My   |
| 13 |    | business address is 675 West Peachtree Street, Atlanta, Georgia 30375.           |
| 14 |    |  |
| 15 | Q. | ARE YOU THE SAME SHELLEY W. PADGETT THAT FILED DIRECT                            |
| 16 |    | TESTIMONY IN THIS PROCEEDING ON DECEMBER 22, 2003?                               |
| 17 |    |  |
| 18 | A. | Yes.   |
| 19 |    |  |
| 20 | Q. | WHAT IS THE PURPOSE OF YOUR SUPPLEMENTAL DIRECT                                  |
| 21 |    | TESTIMONY?   |
| 22 |    |  |
| 23 | A. | This supplemental direct testimony updates the exhibits that were attached to my |
| 24 |    | Direct Testimony filed on December 22, 2003. I have attached supplemental        |

| 1  |    | exhibits SWP-1 through SWP-10, which replace the exhibits that were attached to   |
|----|----|---|
| 2  |    | my direct testimony.  |
| 3  |    |   |
| 4  | Q. | PLEASE DESCRIBE THE CHANGES YOU HAVE MADE TO EXHIBITS                             |
| 5  |    | SWP-1 THROUGH SWP-10 AND THE REASONS FOR THE CHANGES.                             |
| 6  |    |   |
| 7  | A. | I have made the following changes to exhibits SWP-1 through SWP-10:               |
| 8  |    | • I revised the customer locations and routes that were not in my original        |
| 9  |    | exhibits based upon my review of the responses filed with this Commission to      |
| 10 |    | its 2003 Triennial Review Data Requests.  |
| 11 |    | • I deleted certain buildings that were inadvertently included in my prior        |
| 12 |    | exhibits that are not actually located within BellSouth's serving territory and   |
| 13 |    | for which BellSouth is not challenging impairment.                                |
| 14 |    |   |
| 15 | Q: | WHAT IS THE OVERALL IMPACT OF YOUR MODIFICATIONS?                                 |
| 16 | A: | My revised exhibits show there are 81 customer locations where the triggers have  |
| 17 |    | been met for DS1 loops, 83 customer locations where the triggers have been met    |
| 18 |    | for DS3 loops, and 82 customer locations where the triggers have been met for     |
| 19 |    | dark fiber loops. There remain 648 interoffice routes where the triggers have     |
| 20 |    | been met for DS1 dedicated transport. In addition, the triggers have been met for |
| 21 |    | DS3 dedicated transport and dark fiber transport on 718 interoffice routes.       |
| 22 |    |   |
| 23 | Q: | CAN YOU DESCRIBE IN MORE DETAIL WHY YOUR ORIGINAL                                 |
| 24 |    | EXHIBITS DID NOT INCLUDE THE INFORMATION CONTAINED IN                             |
| 25 |    | YOUR SUPPLEMENTAL EXHIBITS?   |

1 A. Yes. The supplemental exhibits result from the ongoing discovery process in this 2 proceeding. In Florida the Commission's website reflects 410 total certificated Competitive Local Exchange Carriers ("CLECs") and 41 total certificated 3 4 Alternative Access Vendors ("AAVs"). BellSouth understands that the 5 Commission sent data requests to all CLECs and AAVs, meaning a total of 451 6 data requests were sent. As of January 8, 2004, BellSouth's review of the 7 Commission's website indicates only 102 responses have been filed. The most 8 recent response was filed on January 8, 2004, well after the December 22, 2003 9 direct testimony filing date. Moreover, in some instances carriers supplemented 10 their original responses. 11 ARE YOU SUBMITTING THE FINAL LIST OF ROUTES AND BUILDINGS 12 Q. WHERE YOU CLAIM THE TRIGGERS FOR DEDICATED TRANSPORT OR 13 14 LOOPS, RESPECTIVELY, HAVE BEEN SATISFIED? 15 16 I am not. BellSouth continues to pursue discovery to ensure that it has included Α. 17 all such routes and buildings and reserves the right modify the list of locations and 18 routes. It is entirely possible that additional responses may be filed with this Commission that impact the customer locations and routes where the triggers 19 20 established by the FCC have been satisfied and where CLECs are not impaired 21 without access to unbundled high-capacity loops or dedicated transport. 22 23

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| 1  |    | <b>BELLSOUTH TELECOMMUNICATIONS, INC.</b>                                      |
|----|----|--|
| 2  |    | <b>REBUTTAL TESTIMONY OF SHELLEY W. PADGETT</b>                                |
| 3  |    | <b>BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION</b>                            |
| 4  |    | <b>DOCKET NO. 030852-TP</b>  |
| 5  |    | <b>JANUARY 21, 2004</b>  |
| 6  |    |  |
| 7  | Q. | PLEASE STATE YOUR NAME, YOUR POSITION WITH BELLSOUTH                           |
| 8  |    | TELECOMMUNICATIONS, INC. ("BELLSOUTH") AND YOUR BUSINESS                       |
| 9  |    | ADDRESS.   |
| 10 |    |  |
| 11 | А. | My name is Shelley W. Padgett. I am employed by BellSouth as Manager -         |
| 12 |    | Regulatory and Policy Support in the Interconnection Services organization. My |
| 13 |    | business address is 675 West Peachtree Street, Atlanta, Georgia 30375.         |
| 14 |    |  |
| 15 | Q. | ARE YOU THE SAME SHELLEY W. PADGETT THAT FILED DIRECT                          |
| 16 |    | TESTIMONY IN THIS PROCEEDING ON DECEMBER 22, 2003, AND                         |
| 17 |    | SUPPLEMENTAL DIRECT TESTIMONY ON JANUARY 9, 2004?                              |
| 18 |    |  |
| 19 | А. | Yes.   |
| 20 |    |  |
| 21 | Q. | WHAT IS THE PURPOSE OF YOUR REBUTTAL TESTIMONY?                                |
| 22 |    |  |
| 23 | А. | My rebuttal testimony addresses the revised direct testimony of Florida        |
| 24 |    | Competitive Carriers Association (FCCA) witness Gary Ball and portions of      |
| 25 |    | NewSouth Communications Corp. witness Jake Jennings' testimony. Mr.            |

.

Jennings' testimony is, in large measure, a brochure for NewSouth and the only substantive issue he addresses concerns Issue 20, the transition period. BellSouth has filed a Motion to Strike the remainder of the direct testimony of Mr. Jennings and the original direct testimony of Mr. Ball, 121

# 6 Q. DO YOU HAVE ANY OVERALL COMMENTS CONCERNING MR. BALL'S 7 REVISED DIRECT TESTIMONY?

9 A. Yes, I do. Although Mr. Ball has inserted the issue numbers that his testimony 10 claims to address, his testimony is still not relevant to the identification of the 11 customer locations and transport routes where CLECs are not impaired without 12 unbundled access to high-capacity loops and transport, which is the goal of this 13 proceeding. Indeed, most of Mr. Ball's testimony simply discusses the FCC's 14 Triennial Review Order ("TRO"), describing his interpretation of its policy objectives and applications. As I described in my direct testimony, however, the 15 16 TRO is quite clear in specifying how the self-provisioning and wholesale triggers 17 tests should be correctly applied, and most of Mr. Ball's interpretations are 18 substantially incorrect. Furthermore, Mr. Ball erroneously suggests that the ILECs 19 bear the burden of proof in this case (p. 4), which is contradicted by TRO,  $\P$  92, in which the FCC states that "[w]e do not adopt a 'burden of proof' approach that 20 21 places the onus on either incumbent LECS or competitors to prove or disprove the 22 need for unbundling."

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- 25

| 1  | Q. | HOW IS YOUR TESTIMONY ORGANIZED?   |
|----|----|--|
| 2  |    |  |
| 3  | A. | There are at least two primary areas of the TRO that Mr. Ball interprets             |
| 4  |    | incorrectly: the definition of a route and the definition of a customer location.    |
| 5  |    | Both Mr. Ball and Mr. Jennings address, albeit incorrectly, the transition period. I |
| 6  |    | will address each of these in turn.  |
| 7  |    |  |
| 8  |    | (1) The definition of a route  |
| 9  |    |  |
| 10 | Q. | WHAT DOES MR. BALL SAY ABOUT THE DEFINITION OF A "ROUTE"?                            |
| 11 |    |  |
| 12 | A. | Mr. Ball claims that, for a CLEC to count towards the transport triggers on a        |
| 13 |    | given route, the CLEC must provide service directly connecting the two central       |
| 14 |    | offices at each end of the route, stating that to support a trigger claim, the ILEC  |
| 15 |    | must produce evidence that "the CLEC self-provisions transport service ()            |
| 16 |    | between the two wire centers and that each collocation arrangement in question is    |
| 17 |    | being used as an endpoint for a transport route at the specific capacity level       |
| 18 |    | between two wire centers." (p. 21)   |
| 19 |    |  |
| 20 | Q. | IS THIS INTERPRETATION CORRECT?  |
| 21 |    |  |
| 22 | A. | No. Mr. Ball's interpretation of a transport route is puzzling, at best. Mr. Ball    |
| 23 |    | apparently believes that even if a carrier can indirectly send traffic between two   |
| 24 |    | ILEC central offices, this carrier does not count toward the triggers test for that  |
| 25 |    | route. Mr. Ball further argues that most CLEC networks are constructed such that     |

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collocation arrangements are used as a traffic aggregation point that can only
 route back to the CLEC's switch and that the CLEC is incapable of routing traffic
 from its switch to the ILEC's central office across those same facilities (pp. 14 15).

6 However, as the FCC has explained, passing through an intermediate wire center 7 or an intermediate switch – ILEC or CLEC – does not prevent the connection of 8 two central offices to form a route. Rule 319(e) clearly provides that "a route is a 9 transmission path between one of an incumbent LEC's wire centers or switches 10 and another of the incumbent LEC's wire centers or switches. A route between 11 two points (e.g., wire center or switch "A" and wire center or switch "Z") may 12 pass through one or more intermediate wire centers or switches (e.g., wire center 13 or switch "X"). Transmission paths between identical end points (e.g., wire center or switch "A" and wire center or switch "Z") are the same route, 14 15 irrespective of whether they pass through the same intermediate wire centers or 16 switches, if any."

17

5

# 18 Q. WHAT SHOULD BE ASSUMED ABOUT CLECS' ABILITIES TO PROVIDE 19 TRANSPORT BETWEEN ILEC WIRE CENTERS?

20

A. As explained by Mr. Gray in his direct testimony (p. 8), it is reasonable to assume
that a carrier has a "route" between any pair of incumbent LEC wire centers in the
same LATA where it has operational collocation arrangements. Indeed, FPL
FiberNet, Time Warner Telecom and Level 3 indicated that any point on their
network can be connected to any other point on the network. FPL FiberNet's

|    | response to the Staff's Discovery states, "All on-net locations are accessable (sic) |
|----|--|
|    | to all other on-net locations and are not limited to the existing circuits           |
|    | documented below." Time Warner's response to the Staff's Discovery contains a        |
|    | note that states, "TWTC has or can provision over its own facilities transport       |
|    | routes from any of its cages to any of its cages." Another note says, "In Florida    |
|    | where TWTC has its own intercity network, TWTC is able to provision high             |
|    | capacity transport circuits between all cage locations in the state." Level 3's      |
|    | response to Staff's Discovery explains that, "[t]he Level 3 Gateway is               |
|    | connected to every other Level 3 facility via the Level 3 intercity network."        |
|    | In short, it is logical and reasonable to assume that a carrier's network within a   |
|    | LATA is fully interconnected.  |
|    |  |
| Q. | ARE THERE ANY OTHER PROBLEMS WITH MR. BALL'S DEFINITION?                             |
|    |  |
| A. | Yes. Mr. Ball claims the FCC requires that a CLEC must be "providing transport       |
|    | service between the two ILEC wire centers" for a route to be counted (p.21).         |
|    |  |
| Q. | WHY IS THIS INCORRECT?   |
|    |  |
| A. | The FCC's rules do not require that for a CLEC to qualify for the triggers it has to |
|    | currently provide service between the two ILEC central offices at the ends of the    |
|    | route, but only that the "competing provider has deployed its own transport          |
|    | facilities and is operationally ready to use those transport facilities to provide   |
|    | dedicated () transport along the particular route" ((47 C.F.R.                       |
|    | §51.319(e)(2)(i)(A)(1)). Therefore, the statements made in Mr. Ball's testimony      |
|    | A.<br>Q.   |

1 regarding the need to show evidence that a CLEC is "providing service between 2 the two ILEC wire centers" are inconsistent with the TRO and should be 3 disregarded by this Commission. 4 5 As stated in the FCC's rules, the qualifying condition is that the CLEC has to be 6 "operationally ready" to use those facilities to provide transport along the specific 7 route, which a CLEC clearly is when it has operational fiber-based collocation 8 arrangements at both ILEC central offices. Establishing a connection between 9 two operationally ready collocations via a switch or hub typically requires only a 10 software-based configuration of a circuit. Thus, even if a CLEC does not 11 ordinarily use its interoffice facilities to provide transport between ILEC central offices, this fact is irrelevant for the proceeding since they are operationally ready 12 13 to do so. 14 15 (2) The definition of a customer location 16 HOW DOES MR. BALL DEFINE A "CUSTOMER LOCATION"? 17 Q. 18 19 Mr. Ball claims in his testimony that in multi-tenant buildings, the customer A. 20 location is defined as the tenant unit rather than the building. (p. 20). The 21 implication of this assertion is that meeting the self-provisioning trigger for loops 22 would require an individual end user to be served by two or more competing 23 providers in order for the trigger to apply, and, even then, the unbundling relief 24 would only apply to the facilities serving that particular end user. 25

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| 1<br>2 | Q. | IS MR. BALL'S INTERPRETATION CORRECT?  |
|--------|----|--|
| 3      | A. | No. Mr. Ball's interpretation is contrary to the rules, which distinguish between        |
| 4      |    | "customer locations" and "individual unit[s] within that location". 47 C.F.R. §          |
| 5      |    | 51.319(a)(4)(ii), $(5)(i)(B)$ . This distinction indicates that a customer location is a |
| 6      |    | building, not an individual unit or suite in a multi-unit building.                      |
| 7      |    |  |
| 8      |    | Indeed, based on their discovery responses, the CLECs in Florida agree. The              |
| 9      |    | Commission's discovery specifically asked the CLECs to identify the "customer            |
| 10     |    | locations" to which they have deployed loop facilities and, in response, the             |
| 11     |    | CLECs generally provided the addresses of specific buildings.                            |
| 12     |    |  |
| 13     |    | Further, Mr. Ball contradicts his own position when he says on p. 19 that "the           |
| 14     |    | loop must permit the CLEC to access all units within a customer location, such as        |
| 15     |    | all tenants in a multi-tenant building," indicating that the "customer location" is      |
| 16     |    | the building rather than the tenant unit.  |
| 17     |    |  |
| 18     |    | (3) The transition period (Issue 20)   |
| 19     |    |  |
| 20     | Q. | SHOULD THE COMMISSION ADDRESS THE TRANSITION PERIOD IN                                   |
| 21     |    | ANOTHER PROCEEDING FOLLOWING THIS PROCEEDING AS MR.                                      |
| 22     |    | BALL AND MR. JENNINGS SUGGEST?   |
| 23     |    |  |
| 24     | A. | No. Any transition period should be addressed in this proceeding. It would make          |
| 25     |    | little sense to expend additional time and resources later and further delay opening     |

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the market on routes or to locations for which the Commission has already found
 that competing carriers are not impaired.

Q. MR. BALL AND MR. JENNINGS APPEAR TO CLAIM THAT A LONG
TRANSITION PERIOD IS NECESSARY BECAUSE CLECS HAVE
ENTERED INTO CONTRACTS WITH CUSTOMERS BASED ON UNE
COSTS AND COULD NOT TOLERATE "SUDDEN COST INCREASES".
(BALL, P. 39; JENNINGS, P. 15). PLEASE ADDRESS THIS ARGUMENT.

9

3

A. First, the FCC's initiated its Triennial Review in December 2001. Consequently,
 all carriers have been on notice at least for the past two years that some unbundled
 network elements may be delisted. That NewSouth has apparently failed to make
 contingency plans for this eventuality is no basis for a protracted delay or further
 proceedings to address transitional issues.

15

16 Second, and more importantly, if this Commission finds that CLECs are not 17 impaired along a route or to a customer location, such a finding means there are 18 alternatives to UNEs available. While a carrier may take time to evaluate its 19 options and negotiate terms with other carriers, including the ILEC, a long 20 transition period would only delay the movement of carriers toward the goal of 21 promoting facilities-based competition as rapidly as possible. A long transition 22 period would also require ILECs to continue to subsidize competitors in areas in which no impairment exists. A more reasonable time frame to allow carriers to 23 24 make such alternative arrangements is 90 days.

25

| 1  | Q. | MR. BALL RECOMMENDS THAT THIS COMMISSION INSTITUTE A                              |
|----|----|---|
| 2  |    | MUTLI-TIERED TRANSITION PROCESS. (P. 41). PLEASE RESPOND.                         |
| 3  |    |   |
| 4  | A. | Mr. Ball's plan apparently relies upon the switching and line sharing plans       |
| 5  |    | established by the FCC. Without commenting on the merits of such plans, I         |
| 6  |    | disagree with Mr. Ball's reliance. This Commission may determine that CLECs       |
| 7  |    | are not impaired in competing along specific routes or to specific customer       |
| 8  |    | locations, not an entire market. There is absolutely no reason for a phased in    |
| 9  |    | approach.   |
| 10 |    |   |
| 11 | Q. | MR. BALL CLAIMS THAT PARAGRAPH 584 OF THE TRO MANDATES                            |
| 12 |    | THAT COMPETING CARRIERS MAY CONTINUE TO HAVE ACCESS TO                            |
| 13 |    | COMBINATIONS OF LOOP AND TRANSPORT EVEN IF ONE OF THE                             |
| 14 |    | ELEMENTS OF A PARTICULAR COMBINATION HAS BEEN DELISTED.                           |
| 15 |    | (PP. 40-41). PLEASE RESPOND.  |
| 16 |    |   |
| 17 | A. | Mr. Ball has inaccurately interpreted the FCC's intentions. Paragraph 584 was     |
| 18 |    | modified in the FCC's Errata, released September 17, 2003, to remove any          |
| 19 |    | reference to network elements made available to competing carriers pursuant to    |
| 20 |    | Section 271 of the Telecommunications Act of 1996 (the Act). In note 1990, the    |
| 21 |    | FCC explicitly stated its intentions with regard to such network elements. It     |
| 22 |    | states, "[w]e decline to require BOCs, pursuant to section 271, to combine        |
| 23 |    | network elements that no longer are required to be unbundled under section 251.   |
| 24 |    | Unlike section 251(c)(3), items 4-6 and 10 of section 271's competitive checklist |
| 25 |    | contain no mention of 'combining' and, as noted above, do not refer back to the   |

| 1 |          | combination requirement set forth in section $251(c)(3)$ ." The FCC does not |
|---|----------|--|
| 2 |          | appear to agree with Mr. Ball.   |
| 3 |          |  |
| 4 | Q.       | DOES THIS CONCLUDE YOUR REBUTTAL TESTIMONY?                                  |
| 5 |          |  |
| 6 | A.       | Yes.   |
| 7 |          |  |
| 8 | [522855] |  |
|   |          |  |

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| 1  |    | <b>BELLSOUTH TELECOMMUNICATIONS, INC.</b>                                      |
|----|----|--|
| 2  |    | SURREBUTTAL TESTIMONY OF SHELLEY W. PADGETT                                    |
| 3  |    | <b>BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION</b>                            |
| 4  |    | <b>DOCKET NO. 030852-TP</b>  |
| 5  |    | <b>FEBRUARY 4, 2004</b>  |
| 6  |    |  |
| 7  | Q. | PLEASE STATE YOUR NAME, YOUR POSITION WITH BELLSOUTH                           |
| 8  |    | TELECOMMUNICATIONS, INC. ("BELLSOUTH") AND YOUR BUSINESS                       |
| 9  |    | ADDRESS.   |
| 10 |    |  |
| 11 | A. | My name is Shelley W. Padgett. I am employed by BellSouth as Manager –         |
| 12 |    | Regulatory and Policy Support in the Interconnection Services organization. My |
| 13 |    | business address is 675 West Peachtree Street, Atlanta, Georgia 30375.         |
| 14 |    |  |
| 15 | Q. | ARE YOU THE SAME SHELLEY W. PADGETT THAT FILED DIRECT                          |
| 16 |    | TESTIMONY IN THIS PROCEEDING ON DECEMBER 22, 2003,                             |
| 17 |    | SUPPLEMENTAL DIRECT TESTIMONY ON JANUARY 9, 2003, AND                          |
| 18 |    | REBUTTAL TESTIMONY ON JANUARY 21, 2004?  |
| 19 |    |  |
| 20 | A. | Yes.   |
| 21 |    |  |
| 22 | Q. | WHAT IS THE PURPOSE OF YOUR SURREBUTTAL TESTIMONY?                             |
| 23 |    |  |
| 24 | A. | This surrebuttal testimony addresses certain statements made by witnesses      |
| 25 |    | Anderson, Ball, Bradbury, Brownworth, Dickerson, Falvey, Hand, Hardin, and     |

| 1  |    | Johnson in their rebuttal testimonies. The first part of my testimony addresses         |
|----|----|---|
| 2  |    | changes made to my exhibits, which exhibits are included with this testimony.           |
| 3  |    | The second part of my testimony discusses issues that apply to both the loop and        |
| 4  |    | transport analyses. I then discuss loops issues (part III), transport issues (part IV), |
| 5  |    | and transition issues (part V).   |
| 6  |    |   |
| 7  | I. | Triggers Exhibit Changes  |
| 8  | Q. | MANY OF THE CLEC WITNESSES ASSERT THAT THE CUSTOMER                                     |
| 9  |    | LOCATIONS AND ROUTES REFLECTED ON YOUR EXHIBITS DO NOT                                  |
| 10 |    | SATISFY THE FCC'S TRIGGERS. HAVE YOU MADE CHANGES TO                                    |
| 11 |    | THESE EXHIBITS, AND IF SO, PLEASE EXPLAIN WHY.  |
| 12 |    |   |
| 13 | A. | I have modified my exhibits and have carefully reviewed the testimony of the            |
| 14 |    | CLEC witnesses. My changes are as follows. First and foremost, I included new           |
| 15 |    | discovery evidence that was received too late to include in my prior analyses. It       |
| 16 |    | has always been, and remains, BellSouth's desire to use accurate data provided by       |
| 17 |    | carriers, which data is consistent with the FCC's rules. Second, in some                |
| 18 |    | instances, information in the CLEC witness's testimony resulted in changes.             |
| 19 |    | Third, I excluded a few small carriers in BellSouth territory as well as some           |
| 20 |    | wholesale loop facilities where BellSouth decided it was not worth pursuing             |
| 21 |    | additional clarification through further discovery. Fourth, facilities that were        |
| 22 |    | previously owned by carrier Network Plus have been excluded as we have learned          |
| 23 |    | this carrier is exiting the Southeast. Fifth, the triggers analysis has been updated    |
| 24 |    | to ensure that buildings in which the carrier claims not to have access to the entire   |
| 25 |    | building are excluded from consideration.   |

| 1  | Q. | PLEASE DESCRIBE THE NEW EVIDENCE AND ANY OTHER CHANGES                                 |
|----|----|--|
| 2  |    | YOU HAVE MADE IN THE TRIGGER ANALYSIS FOR LOOPS.                                       |
| 3  |    |  |
| 4  | A. | The following changes were made to the trigger analysis for loops:                     |
| 5  |    | - Discovery answers from KMC, Qwest, Nuvox/Trivergent, 360 Networks and                |
| 6  |    | Allegiance were included in the trigger analysis.                                      |
| 7  |    | - Loops where a carrier said in discovery that it does not have access to all units in |
| 8  |    | a building were excluded from wholesale trigger analysis for DS1 and DS3 loops.        |
| 9  |    | - Several carriers with a small number of loops in BellSouth territory and for         |
| 10 |    | which we had no discovery were excluded (e.g., BroadWing, Global NAPs,                 |
| 11 |    | Focal, Yipes, Enron Broadband, Flatel, TMC Telecom, Broadview, Verizon). In            |
| 12 |    | order to rely on discovery to the maximum extent possible, I also excluded a few       |
| 13 |    | small carriers that BellSouth had not received discovery from and for which data       |
| 14 |    | from GeoResults was previously used. The exclusion of these carriers resulted in       |
| 15 |    | the loss of only one loop where the triggers had been met, while simplifying the       |
| 16 |    | analysis.  |
| 17 |    |  |
| 18 |    | The revised lists of customer locations where triggers are met, together with the      |
| 19 |    | supporting evidence as described in my direct testimony, are presented in Exhibits     |
| 20 |    | SWP-1 to SWP-5.  |
| 21 |    |  |
| 22 | Q. | PLEASE DESCRIBE THE NEW EVIDENCE AND ANY OTHER CHANGES                                 |
| 23 |    | YOU HAVE MADE IN THE TRIGGER ANALYSIS FOR DEDICATED                                    |
| 24 |    | TRANSPORT.   |
| 25 |    |  |

| 1        | A.  | The following changes were made to the trigger analysis for transport:  |
|----------|-----|---|
| 2        |     | - Discovery answers from Allegiance, AT&T (including Media One), SBC <sup>1</sup> and   |
| 3        |     | Sprint were considered in the trigger analysis.   |
| 4        |     | - Network Plus was excluded from the triggers analysis since BellSouth learned  |
| 5        |     | that this carrier is leaving the Southeast.   |
| 6        |     | The revised lists of routes where triggers are met, together with the supporting  |
| 7        |     | evidence described in my direct testimony, are presented in Exhibits SWP-6 to   |
| 8        |     | SWP-10.   |
| 9        |     |   |
| 10       | II. | General Issues Affecting Both Loops and Transport   |
| 11       | Q.  | FCCA WITNESS BALL (P. 9, P. 20, AND P. 39) CLAIMS THAT  |
| 12       |     | BELLSOUTH DID NOT CONDUCT A CAPACITY-SPECIFIC ANALYSIS.   |
| 13       |     | PLEASE RESPOND.   |
| 14       |     |   |
| 15       | A.  | BellSouth examined the evidence provided through discovery to determine what  |
| 16       |     | types of facilities a carrier has provisioned to a specific customer location or  |
| 17       |     | along a specific route. If the carrier indicated that it had provisioned only DS1   |
| 18       |     | capacity and indicated a willingness to wholesale, the facility was counted toward  |
| 19       |     | the DS1 Wholesale Trigger only. If the carrier indicated that it had a DS3, OCn   |
| 20       |     | or fiber facility in place, BellSouth concluded that the carrier is capable of  |
| 21       |     | providing DS1 and DS3 capacity services. Finally, when using data from the  |
| 22       |     | GeoLIT <sup>TM</sup> Plus Report that indicates the existence of fiber-based facilities or from   |
|          |     |   |
| 23       |     | BellSouth's internal records indicating the existence of fiber-based collocation,   |
| 23<br>24 |     | BellSouth's internal records indicating the existence of fiber-based collocation,<br>then BellSouth has reasonably concluded that such carriers can provide DS1 and |

<sup>&</sup>lt;sup>1</sup> BellSouth has used SBC's data responses filed with the Commission and is in the process of clarifying a question relating to SBC's responses to Verizon's discovery.

| 1  |    | DS3 capacity services. Such conclusions are the only way to conduct a                 |
|----|----|---|
| 2  |    | reasonable, capacity-specific analysis as instructed by the TRO.                      |
| 3  |    |   |
| 4  |    | As BellSouth witness Wayne Gray discusses in his testimony, carriers typically        |
| 5  |    | deploy fiber-optic facilities that can operate at a range of capacities determined by |
| 6  |    | the electronics attached to them. For example, when laying fiber it makes sense       |
| 7  |    | to deploy high-capacity OCn facilities so that there will always be enough            |
| 8  |    | bandwidth to handle the traffic on a given loop. The carrier then attaches            |
| 9  |    | electronics to subdivide (or "channelize") the available capacity, activating the     |
| 10 |    | amount of capacity and number of channels needed along the loop. Indeed, this         |
| 11 |    | channelization is extremely common given that the vast majority of retail loops       |
| 12 |    | sold are at the DS3 level or below – according to the market research firm IDC,       |
| 13 |    | more than 99% of dedicated enterprise loops, excluding switched voice lines, are      |
| 14 |    | provided at DS3 or lower capacity.  |
| 15 |    |   |
| 16 | Q. | SPRINT WITNESS DICKERSON (P. 18) IMPLIES THAT SPARE DARK                              |
| 17 |    | FIBER MUST BE PRESENT IN ORDER FOR THE DARK FIBER TRIGGERS                            |
| 18 |    | TO BE MET. DOES THE TRO REQUIRE COMPETITIVE FACILITIES TO                             |
| 19 |    | HAVE UNLIT FIBER STRANDS IN ORDER TO QUALIFY FOR THE DARK                             |
| 20 |    | FIBER TRIGGERS?   |
| 21 |    |   |
| 22 | A. | Only in the wholesale trigger for dark fiber transport (note that there is no         |
| 23 |    | wholesale trigger for dark fiber loops) - there is no such requirement for any self-  |
| 24 |    | provisioning trigger. The language of the TRO is clear on this point. For             |
| 25 |    | example, in the case of the self-provisioning trigger for dark fiber transport, the   |

| 1  |    | TRO says that as long as a competitive carrier has deployed fiber transmission        |
|----|----|---|
| 2  |    | facilities to a collocation arrangement, it should qualify for the dark fiber trigger |
| 3  |    | in that wire center (TRO ¶408). Specifically, the FCC's rules require that "the       |
| 4  |    | competing provider has deployed its own dark fiber facilities, which may include      |
| 5  |    | dark fiber facilities that it has obtained on a long-term, indefeasible-right of use  |
| 6  |    | basis." (47 C.F.R. § 51.319(e)(3)(i)(A)(1), emphasis added). There is no              |
| 7  |    | condition on the existence of extra dark fiber strands that have not yet been lit.    |
| 8  |    | The language of the TRO for self-provisioning dark fiber loops is similar to          |
| 9  |    | transport and has no condition requiring the existence of unused fiber strands.       |
| 10 |    |   |
| 11 | Q. | AT&T WITNESS BRADBURY (P. 8-12) AND FCCA WITNESS BALL (P. 46                          |
| 12 |    | AND P. 49) CLAIM THAT FACILITIES THAT ARE PROVISIONED BY                              |
| 13 |    | CARRIERS WITH MORE THAN 12 DS3S ON THE ROUTE IN QUESTION                              |
| 14 |    | OR MORE THAN 2 DS3S TO THE CUSTOMER LOCATION SHOULD NOT                               |
| 15 |    | BE INCLUDED IN THE TRIGGER ANALYSIS. CAN YOU ADDRESS THIS?                            |
| 16 |    |   |
| 17 | A. | This is nothing more than an attempt by CLECs to add imaginary requirements to        |
| 18 |    | those outlined in the TRO in order to make the triggers more difficult to meet.       |
| 19 |    | The rules are quite clear as to the requirements for meeting the triggers and they    |
| 20 |    | do not mention any capacity ceilings for competitive facilities to qualify for the    |
| 21 |    | trigger. (See 47 C.F.R. § 51.319(a)(4), (5) and (6) for loops and 47 C.F.R. §         |
| 22 |    | 51.319(e)(1), (2) and (3) for dedicated transport). The TRO does not allow room       |
| 23 |    | for additional criteria to be added, and this Commission should resist the call to    |
| 24 |    | do so.  |
| 25 |    |   |

| 1  | Q. | XSPEDIUS WITNESS FALVEY (P. 7), MCI WITNESS HARDIN (P. 15), AND                       |
|----|----|---|
| 2  |    | SPRINT WITNESS DICKERSON (P. 13) CLAIM THAT BELLSOUTH DOES                            |
| 3  |    | NOT PROVIDE THE LOCATION OR ROUTE-SPECIFIC ANALYSIS                                   |
| 4  |    | CONTEMPLATED BY THE WHOLESALE TRIGGERS. DOES BELLSOUTH                                |
| 5  |    | PROVIDE LOCATION-SPECIFIC EVIDENCE THAT THE WHOLESALE                                 |
| 6  |    | TRIGGER HAS BEEN MET?   |
| 7  |    |   |
| 8  | A. | Yes. BellSouth does in fact provide route- and location-specific evidence that the    |
| 9  |    | wholesale trigger, as described by the FCC in the TRO, is met. Wherever relief is     |
| 10 |    | claimed, granular evidence is presented that at least two competitive carriers who    |
| 11 |    | are willing to offer wholesale service are present at each customer location or       |
| 12 |    | along each route at the specific capacity level.                                      |
| 13 |    |   |
| 14 |    | A carrier only counts towards the trigger at a given customer location or route if it |
| 15 |    | has deployed its own facilities to that specific location and is a wholesaler. Thus,  |
| 16 |    | contrary to the claims of ITC^DeltaCom witness Mr. Brownworth (Rebuttal, p.           |
| 17 |    | 3), BellSouth is not including as wholesale routes those routes which                 |
| 18 |    | ICT^DeltaCom is reselling capacity that it buys from a third party.                   |
| 19 |    |   |
| 20 |    | BellSouth uses data from discovery and the GeoLIT <sup>™</sup> Plus Report to obtain  |
| 21 |    | granular evidence that carriers have deployed their own facilities on a location-     |
| 22 |    | by-location basis. For transport, BellSouth uses data from discovery and from its     |
| 23 |    | own internal records to show where carriers have deployed facilities on a route-      |
| 24 |    | by-route basis. Carriers are classified as wholesalers at the carrier level based on  |
|    |    |   |

1 willingness to wholesale. This evidence is presented in summary form in Exhibits 2 SWP-11 and SWP-12. 3 4 The classification of a carrier as a wholesaler is made at the carrier level since the 5 willingness to sell wholesale to other carriers is part of each carrier's commercial 6 strategy rather than a decision that is made at a granular level for each route and 7 customer location. The wholesale trigger defined by the FCC in the TRO is 8 consistent with this standard since it does not require the carrier to currently 9 provide wholesale service in the customer location, but only that it be willing to 10 offer access to its loop or transport facilities on a wholesale basis (e.g., see TRO 11 ¶337). 12 13 It would be bizarre for a wholesaler to selectively refuse to provide wholesale 14 service on part of its facilities since this would create serious problems in terms of 15 relationship with customers, marketing strategy, and even internal operations to 16 differentiate facilities that can and cannot be offered on a wholesale basis. 17 18 All the evidence that BellSouth collected, including advertisements, public 19 statements and industry reports, supports the conclusion that carriers willing to sell their own facilities on a wholesale basis do not selectively refuse to provide 20 wholesale service on part of their transport and loop facilities. Any criterion that 21 22 required evidence of willingness to wholesale at the route or customer location 23 level would be impossible to meet – carriers do not advertise wholesale service on 24 a location-by-location or route-by-route basis, but rather indicate general 25 willingness to do so.

8

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| 1  | Q. | KMC WITNESS JOHNSON (P. 13) POINTS OUT THAT FOR A CARRIER TO                        |
|----|----|---|
| 2  |    | COUNT TOWARDS THE WHOLESALE TRIGGER, IT MUST "OFFER ITS                             |
| 3  |    | WHOLESALE SERVICES BROADLY." DID BELLSOUTH INCLUDE AS                               |
| 4  |    | WHOLESALERS CARRIERS WHO DO NOT HAVE "WIDELY  |
| 5  |    | AVAILABLE" WHOLESALE OFFERINGS?   |
| 6  |    |   |
| 7  | A. | No. As my direct testimony states (p. 20 and p. 9) explains, BellSouth used         |
| 8  |    | discovery responses, BellSouth's experiences, analyst and industry reports about a  |
| 9  |    | carrier, and the carrier's public statements and advertisements about its own       |
| 10 |    | offerings. Using these sources is a reasonable approach to ensuring that the        |
| 11 |    | wholesale offering is widely available.   |
| 12 |    |   |
| 13 | Q. | KMC WITNESS JOHNSON (P. 23 - P. 26) LISTS "ADDITIONAL CRITERIA"                     |
| 14 |    | THAT APPLY TO THE WHOLESALE LOOP TRIGGER SIMILAR TO                                 |
| 15 |    | THOSE FCCA WITNESS BALL OUTLINES FOR WHOLESALING                                    |
| 16 |    | TRIGGERS (P. 32 AND P. 35). PLEASE ADDRESS THESE CRITERIA.                          |
| 17 |    |   |
| 18 | A. | This is, again, an attempt by the CLECs to add requirements for meeting the         |
| 19 |    | trigger to those set forth by the FCC. The FCC's rules are clear. Ms. Johnson       |
| 20 |    | formulates her list based on statements by the FCC that are not even in the rules   |
| 21 |    | and are taken out of context.   |
| 22 |    |   |
| 23 |    | First, Ms. Johnson expands the term "widely available" to include a host of issues  |
| 24 |    | that have nothing to do with whether or not a carrier offers access to its loops to |
| 25 |    | other carriers on a widely available basis. For instance, Ms. Johnson apparently    |

| 1  | doesn't believe that public statements made by a carrier of its willingness to         |
|----|--|
| 2  | wholesale are sufficient evidence that the carrier counts toward the wholesale         |
| 3  | trigger. She would have this Commission examine the availability of a contract,        |
| 4  | the availability of capacity for future growth, operational support systems, and a     |
| 5  | series of additional cross-connect requirements. Such an examination would be          |
| 6  | exceedingly time-consuming and would add little to the issue at hand – what            |
| 7  | could be clearer evidence that a carrier is a wholesaler than that it is offering      |
| 8  | wholesale products in the marketplace?   |
| 9  |  |
| 10 | Second, Ms. Johnson advocates a financial viability test (p. 25-26). The FCC           |
| 11 | specifically instructed that "states should <u>not</u> undertake a financial viability |
| 12 | analysis with respect to each provider [used in meeting the wholesale trigger]"        |
| 13 | (¶338, emphasis added). Ms. Johnson does correctly relay the need to have "some        |
| 14 | reasonable expectation" of the continuing availability of wholesale loops, but she     |
| 15 | presents it in such a way as to misle ad this Commission as to the requirements of     |
| 16 | the trigger. In fact, the FCC even says that   |
| 17 | carriers operating under chapter 11 bankruptcy are still capable of                    |
| 18 | providing service while they reorganize their operations. Relatedly, in the            |
| 19 | case of a chapter 7 liquidation, the physical transmission facility assets of          |
| 20 | a competitive provider will continue to exist at that location as the                  |
| 21 | purchaser of those assets will likely provide similar wholesale service or             |
| 22 | use such facilities to self-provide retail service. Under either scenario, the         |
| 23 | triggers which resulted in a finding of no impairment at that location will            |
| 24 | continue to be met. (TRO, footnote 989)  |

| PUBLIC DISCLOSURE D                           | OCUMENT                          |
|---|----------------------------------|
|   |                                  |
| The language of the TRO is clearly very diffe | erent from the test of financial |

| 1  |      | The language of the TRO is clearly very different from the test of financial            |
|----|------|---|
| 2  |      | viability advocated by Ms. Johnson.   |
| 3  |      |   |
| 4  |      | Third, Ms. Johnson makes an entirely fictional claim that for dark fiber to be          |
| 5  |      | counted toward the wholesale trigger, there is some requirement for "each               |
| 6  |      | competitor [to have] the ability to attach electronics that permit it to provide        |
| 7  |      | service at the level of its choosing" (p. 26). Ms. Johnson implies that the carrier     |
| 8  |      | must have a means to allow its carrier customer to attach its own optronics at          |
| 9  |      | some point in the future. This condition was invented by Ms. Johnson and is not         |
| 10 |      | contained within the FCC's rules.   |
| 11 |      |   |
| 12 | III. | High-Capacity Loops   |
| 13 | Q.   | PLEASE COMMENT ON XSPEDIUS WITNESS FALVEY'S (P. 10) CLAIMS                              |
| 14 |      | THAT BELLSOUTH INCLUDED BUILDINGS IN ITS SELF-PROVISIONING                              |
| 15 |      | TRIGGER ANALYSIS WHERE XSPEDIUS DOES NOT HAVE ACCESS TO                                 |
| 16 |      | ALL CUSTOMERS IN A BUILDING.  |
| 17 |      |   |
| 18 | A.   | The requirement that each "competing provider has access to the entire customer         |
| 19 |      | location, including each individual unit within that location" (47 C.F.R. §§            |
| 20 |      | 51.319(a)(4)(ii)(B), $(a)(5)(i)(B)(2)$ ) applies only to the wholesale triggers for DS1 |
| 21 |      | and DS3 loops. No such requirement exists for any of the self-provisioning              |
| 22 |      | triggers for high-capacity loops. (See 47 C.F.R. § 51.319(a)(5)(i)(A), (6)(i)). As      |
| 23 |      | such Mr. Falvey's claim is irrelevant.  |
|    |      |   |

| 1  | Q. | XSPEDIUS WITNESS FALVEY (P. 8) AND FCCA WITNESS BALL (P. 20)                     |
|----|----|--|
| 2  |    | CLAIM THAT BELLSOUTH LISTED BUILDINGS AS MEETING THE                             |
| 3  |    | WHOLESALE TRIGGER WHEN THE CARRIER CLAIMS NOT TO HAVE                            |
| 4  |    | ACCESS TO THE ENTIRE BUILDING. PLEASE RESPOND.                                   |
| 5  |    |  |
| 6  | A. | As I discussed above, revised exhibits SWP-2 through SWP-4 remove from           |
| 7  |    | consideration for the wholesale DS1 and DS3 triggers buildings in which carriers |
| 8  |    | have indicated limited access to the building.                                   |
| 9  |    |  |
| 10 | Q. | XSPEDIUS WITNESS FALVEY (P. 10) CLAIMS THAT BELLSOUTH                            |
| 11 |    | INCLUDED BUILDINGS IN ITS TRIGGER ANALYS IS WHERE XSPEDIUS                       |
| 12 |    | HAS NO SPARE ELECTRONICS. PLEASE RESPOND.  |
| 13 |    |  |
| 14 | A. | Mr. Falvey is apparently confused. There are five buildings listed in exhibits   |
| 15 |    | SWP-4 and SWP-5 as being served by Xspedius. On December 22, 2003,               |
| 16 |    | Xspedius provided revised discovery responses, where the only building shown as  |
| 17 |    | lacking electronics in the building is *** BEGIN CONFIDENTIAL                    |
| 18 |    | END CONFIDENTIAL *** This building does not                                      |
| 19 |    | appear in any of my exhibits.  |
| 20 |    |  |
| 21 | Q. | KMC WITNESS JOHNSON, AT&T WITNESS BRADBURY, XSPEDIUS                             |
| 22 |    | WITNESS FALVEY AND FCCA WITNESS BALL CLAIM THAT A LOOP                           |
| 23 |    | HAS TO TERMINATE AT AN ILEC CENTRAL OFFICE TO COUNT                              |
| 24 |    | TOWARD THE WHOLESALE TRIGGERS. DO YOU AGREE?                                     |
| 25 |    |  |

-

| 1  | A. | No. Nothing in the TRO supports that conclusion. When the provider of a loop          |
|----|----|---|
| 2  |    | facility is the ILEC, as it is the case for UNEs, the loop obviously terminates at    |
| 3  |    | the ILEC central office. However, in the context of the triggers for high-capacity    |
| 4  |    | loops, the loops in question are alternative loops provided by CLECs. The             |
| 5  |    | objective of the self-provisioning triggers is to identify if "two or more            |
| 6  |    | competitive LECs have self-provisioned loop transmission facilities, either           |
| 7  |    | intermodal or intramodal facilities, to a particular customer location" and are       |
| 8  |    | "serving customers at that location at the relevant loop capacity level." (TRO,       |
| 9  |    | $\P332$ ). Clearly, whether the other side of the loop goes to an ILEC central office |
| 10 |    | or some other point in the CLEC's network is completely immaterial to the             |
| 11 |    | showing of a CLEC's ability to serve customers in that location over their own        |
| 12 |    | loop facilities, and it is therefore irrelevant for purposes of meeting the trigger.  |
| 13 |    | The discovery responses of numerous carriers included lists of "self-provisioned      |
| 14 |    | loops" that do not terminate at a BellSouth central office, demonstrating that        |
| 15 |    | carriers agree that for purposes of the trigger analysis, the "owner" of the central  |
| 16 |    | office is irrelevant.   |
| 17 |    |   |
| 18 |    | The FCC did not differentiate its use of the term "loop" in the context of the        |
| 19 |    | wholesale trigger from its use in the self-provisioning trigger. The TRO describes    |
| 20 |    | both tests using the same language without any distinction between what qualifies     |
| 21 |    | as a loop for each of the triggers and without adding any extra condition to the      |
| 22 |    | wholesale trigger specifying that loops have to terminate at an ILEC central          |
| 23 |    | office. In Paragraph 329 of the TRO, the FCC says that "incumbent LEC                 |

25 competitive providers have deployed transmission facilities to the location and are

24

13

unbundling obligation[s] can be eliminated ...where two or more unaffiliated

| 1  |    | offering alternative loop facilities to competitive LECs on a wholesale basis at the |
|----|----|--|
| 2  |    | same capacity level (Competitive Wholesale Facilities Trigger)." (Emphasis           |
| 3  |    | added) The important point is that both triggers demonstrate that CLECs can          |
| 4  |    | provide service to customers at a location using alternative facilities.             |
| 5  |    |  |
| 6  | Q. | THE SAME WITNESSES ALSO CLAIM THAT BELLSOUTH IS COUNTING                             |
| 7  |    | KMC, AT&T AND XSPEDIUS TOWARD THE WHOLES ALE TRIGGERS                                |
| 8  |    | EVEN THOUGH THESE CARRIERS TOLD BELLSOUTH IN DISCOVERY                               |
| 9  |    | THAT THEY DO NOT WHOLESALE LOOPS AS DEFINED IN THE TRO.                              |
| 10 |    | PLEASE COMMENT.  |
| 11 |    |  |
| 12 | A. | These carriers are using their own incorrect definition of "loop" (claiming it has   |
| 13 |    | to terminate at an ILEC central office) and then deny that they wholesale "loops."   |
| 14 |    | BellSouth disagrees with the definition that these carriers adopted and has          |
| 15 |    | therefore used other evidence to classify these carriers as wholesalers. This        |
| 16 |    | evidence is presented in summary form in Exhibits SWP-11 and SWP-12.                 |
| 17 |    |  |
| 18 | Q. | FCCA WITNESS BALL (P. 18) AND SPRINT WITNESS DICKERSON (P. 20)                       |
| 19 |    | EXPRESS RESERVATIONS AS TO THE USE OF EVIDENCE OF LOOP                               |
| 20 |    | DEPLOYMENT FROM GEORESULTS. PLEASE RESPOND.  |
| 21 |    |  |
| 22 | A. | As explained in my direct testimony, using the GeoResults data is the best           |
| 23 |    | alternative BellSouth had to overcoming the lack of discovery data. I have used      |
| 24 |    | this data only in instances where a carrier has not provided us with information     |
| 25 |    | through discovery. As shown in attached Exhibit SWP-13, there are only five          |

| 1  |     | carriers remaining for which BellSouth relies upon data from GeoResults, and           |
|----|-----|--|
| 2  |     | BellSouth is in the process of obtaining additional discovery from these carriers.     |
| 3  |     | BellSouth reserves the right to modify Exhibits SWP-1 to SWP-5 to incorporate          |
| 4  |     | the discovery responses from these remaining carriers.                                 |
| 5  |     |  |
| 6  | IV. | Transport  |
| 7  | Q.  | SEVERAL WITNESSES HAVE TESTIFIED THAT THE CARRIERS THEY                                |
| 8  |     | REPRESENT DO NOT SELF-PROVIDE OR WHOLESALE DEDICATED                                   |
| 9  |     | TRANSPORT. WHY ARE THEY INCLUDED IN THE TRANSPORT                                      |
| 10 |     | TRIGGERS ANALYSIS?   |
| 11 |     |  |
| 12 | A.  | Each of the carriers used in the transport trigger analysis is operationally ready to  |
| 13 |     | transport traffic between the central offices as listed in Exhibits SWP-8. The         |
| 14 |     | CLEC witnesses have not denied that CLECs have deployed transport facilities to        |
| 15 |     | collocation arrangements in BellSouth central offices. They simply claim that          |
| 16 |     | their facilities do not qualify as transport routes for purposes of the trigger        |
| 17 |     | analysis. These witnesses have attempted to redefine "route" to avoid admitting        |
| 18 |     | where their facilities actually do meet the FCC's triggers.                            |
| 19 |     |  |
| 20 |     | These carriers deny that their transport facilities qualify as dedicated transport and |
| 21 |     | also deny that they wholesale dedicated transport because they do not have the         |
| 22 |     | facilities in the first place. Thus, BellSouth used other evidence, as explained in    |
| 23 |     | my direct testimony and detailed in the exhibits to this testimony, to qualify         |
| 24 |     | carriers as transport wholesalers. This evidence is presented in summary form in       |
| 25 |     | Exhibit SWP-12.  |

#### 1 Q. HOW HAVE THESE WITNESSES REDEFINED "ROUTE"?

2

3 A. Although there are variations in wording, the basic premise appears to be that a 4 route cannot pass through a CLEC switch; a carrier must provide service directly 5 connecting the two central offices at each end of the route in order for its transport 6 facilities to count towards the transport triggers on that route. They also state that 7 to support a trigger claim, the ILEC must produce evidence that the CLEC self-8 provisions transport service between the two ILEC wire centers and that each 9 collocation arrangement in question is being used as an endpoint for a transport 10 route.

11

12 These carriers say that most CLEC networks follow a hub and spoke architecture 13 and are constructed such that collocation arrangements are used as a traffic 14 aggregation point that can only backhaul traffic to the CLEC's switch. They 15 apparently believe that even if a CLEC can indirectly send traffic between two 16 ILEC central offices, this CLEC does not count toward the triggers test for that 17 route. For instance, Xspedius witness Falvey admits that Xspedius has 18 collocations and uses them to "collect and return ... traffic to the Xspedius 19 network and switch." (page 12) MCI witness Hardin states that on-net 20 collocations are physically connected to MCI's network on MCI-owned facilities 21 and are used by MCI to aggregate traffic and "transmit [it] to MCI's switch." (see 22 generally page 7). AT&T witness Bradbury states that "AT&T's local fiber 23 networks are not configured to enable it to carry traffic from its collocation 24 facilities in one ILEC wire center to its collocation facilities in another ILEC wire center...AT&T's fiber transport network is configured to flow traffic between an 25

16

|    | AT&T switch and (1) either an ILEC tandem or end office switch or (2) an               |
|----|--|
|    | AT&T collocation arrangement at an ILEC wire center." (pp. 15, 16). None of            |
|    | these carriers deny having deployed transport facilities to collocation                |
|    | arrangements in BellSouth central offices; they would simply have this                 |
|    | Commission believe that it is irrelevant where their facilities are because they       |
|    | connect through a CLEC office or switch.   |
|    |  |
|    | However, as the FCC has explained, passing through an intermediate wire center         |
|    | or an intermediate switch – ILEC or CLEC – does not prevent the connection of          |
|    | two central offices to form a route. Rule 319(e) clearly includes "transmission        |
|    | paths between identical pointsirrespective of whether they pass through the            |
|    | same intermediate wire centers or switches" in the definition of a route. This         |
|    | misuse of the term "route", then, clearly is not in agreement with the rules set       |
|    | forth by the FCC.  |
|    |  |
| Q. | HOW WOULD THIS INTERPRETATION OF A "ROUTE" SUBVERT THE                                 |
|    | FCC'S OBJECTIVE IN CREATING THE TRANSPORT TRIGGERS?                                    |
|    |  |
| A. | The FCC found, in the course of its Triennial Review proceeding, that                  |
|    | competitive facilities are available and designed the triggers to identify where       |
|    | competitive facilities are <u>already available</u> . Paragraph 360 of the TRO states, |
|    | "The recordindicates that competitive DS1, DS3, and dark fiber transport               |
|    | facilities are available on a wholesale basis in some areas, and that competing        |
|    | carriers have deployed their own transport networks in some areas. Because the         |
|    | record is not sufficiently detailed concerning exactly where these facilities have     |
|    |  |

| 1  |    | been deployed, and because the nature of transport facilities requires a highly         |
|----|----|---|
| 2  |    | granular impairment analysis, we establish specific triggers for states to apply in     |
| 3  |    | conducting such an analysis." However, contrary to this finding, AT&T and               |
| 4  |    | MCI, the two largest CLECs in the country claim they have no facilities in any of       |
| 5  |    | BellSouth's nine states that would qualify under either transport trigger. This is      |
| 6  |    | because both carriers use their own, incorrect definition of a "route" to justify       |
| 7  |    | such claims. It defies logic to suggest that the FCC would have set up triggers         |
| 8  |    | specifically to identify where carriers have deployed alternative facilities and then   |
| 9  |    | define the trigger such that the largest CLECs in the country, both of which            |
| 10 |    | acquired large CAPs (Competitive Access Providers) (that existed to provide             |
| 11 |    | alternative transport in the first place), would have no facilities that would qualify. |
| 12 |    |   |
| 13 | Q: | IS THERE OTHER EVIDENCE THAT YOU ARE AWARE OF THAT                                      |
| 14 |    | ILLUSTRATES CLECS ARE MORE INTERESTED IN HIDING BEHIND                                  |
| 15 |    | DEFINITIONS, THAN IN PRESENTING ACCURATE FACTS TO THIS                                  |
| 16 |    | COMMISSION?   |
| 17 |    |   |
| 18 | А. | Yes. In responses to discovery in Georgia Docket No. 17741-U, MCI admitted              |
| 19 |    | that *** BEGIN CONFIDENTIAL *** "   |
| 20 |    |   |
| 21 |    |   |
| 22 |    | *** END CONFIDENTIAL *** (Docket No.  |
| 23 |    | 17741-U, MCI's Responses to BellSouth's First Set of Interrogatories,                   |
| 24 |    | Attachment C, Nos. 4, 5). MCI's response goes further to state, "MCI has                |
| 25 |    | provided BellSouth with a list of its 'on-net' collocations. This list identifies the   |

|    | BellSouth wire center buildings that are physically on the network owned by          |
|----|--|
|    | MCI. Once traffic is delivered to MCI at any of its on-net collocation sites it can  |
|    | be delivered to any other MCI on-net collocation locations without leaving MCI's     |
|    | network." (Docket No. 17741-U, MCI's response to Interrogatory 4(a)). Yet,           |
|    | after admitting this in Georgia, MCI witness Hardin claimed that since no more       |
|    | than one BellSouth central office is on an MCI ring, "it is axiomatic that MCI       |
|    | does not have transport between collocations in two ILEC wire centers"               |
|    | (Hardin, p. 7). Ms. Hardin is obviously adopting an incorrect definition of          |
|    | "route" in order to deny that MCI has dedicated transport facilities based on a fact |
|    | that is totally irrelevant to MCI's operationally readiness to route traffic between |
|    | BellSouth central offices, as stated in the TRO.                                     |
|    |  |
| Q. | KMC WITNESS JOHNSON (PP. 5, 6) AND AT&T WITNESS BRADBURY                             |
|    | (P. 15) ARGUE THAT THE TRO'S REDEFINITION OF "DEDICATED                              |
|    | TRANSPORT" PRECLUDES THE INCLUSION OF AN INDIRECT                                    |
|    | TRANSPORT ROUTE THROUGH A SWITCH FOR PURPOSES OF THE                                 |
|    | TRIGGERS ANALYSIS. PLEASE RESPOND.   |
|    |  |
| A. | Counting indirect routes between ILEC wire centers for the purpose of meeting        |
|    | the dedicated transport triggers is perfectly consistent with the new definition of  |
|    | dedicated transport. These carriers are taking out of context the definition of      |
|    | which elements are subject to an unbundling obligation to draw erroneous             |
|    | conclusions. The FCC says in ¶366 of the TRO that "the more reasonable               |
|    | 1  |
|    | approachis to not consider those facilities outside of the incumbent LEC's local     |
|    |  |

| 1  | unbundlingTherefore, we find that the dedicated transport network element             |
|----|---|
| 2  | includes only those facilities that coincide with the incumbent LEC's transport       |
| 3  | network – the transmission links connecting incumbent LEC switches or wire            |
| 4  | centers." However, inclusion or exclusion of facilities connecting an ILEC            |
| 5  | central office and a CLEC switch (i.e., entrance facilities) from the unbundling      |
| 6  | obligation has no bearing on whether or not that "link" is part of the larger "route" |
| 7  | connecting ILEC wire centers. In fact, as I will discuss below, the only purpose      |
| 8  | of a CLEC deploying more than one entrance facility per LATA is to bypass the         |
| 9  | ILEC interoffice network and to create an alternative to buying dedicated             |
| 10 | transport from the ILEC. Therefore it is only logical to count these facilities       |
| 11 | towards the transport triggers.   |
| 12 |   |
| 13 | To understand how entrance facilities provide an alternative to dedicated transport   |
| 14 | provided by the ILEC, see, for example, the case in Exhibit SWP-15, Situation A       |
| 15 | where a CLEC has only one stand-alone entrance facility from its Point of             |
| 16 | Presence (POP) to ILEC Central Office (CO) 1 and also needs transmission links        |
| 17 | to CO2, CO3 and CO4 in order to carry traffic from its end users served from          |
| 18 | these COs. In a typical CLEC hub and spoke architecture, the CLEC purchases           |
| 19 | dedicated transport from the ILEC between CO1, where it has its stand-alone           |
| 20 | entrance facility to its POP, and all the other ILEC COs it needs to reach.           |
| 21 |   |
| 22 | Now, consider the situation presented in Exhibit SWP-15, Situation B where the        |
| 23 | same CLEC deploys two additional entrance facilities from its POP to CO2 and          |
| 24 | CO3. The deployment of these entrance facilities allows the CLEC to bypass the        |
| 25 | ILEC interoffice network and provides the CLEC with a real alternative to             |

20

.

| 1  |    | purchasing dedicated transport between ILEC COs (in fact, this is the only            |
|----|----|---|
| 2  |    | purpose of deploying these facilities). In this example, by using the entrance        |
| 3  |    | facilities as segments of interoffice routes, the CLEC would have alternative         |
| 4  |    | transmission facilities on routes CO1-CO2, CO1-CO3 and CO2-CO3, but would             |
| 5  |    | still purchase dedicated transport between CO1 and CO4. No one is arguing that        |
| 6  |    | the stand-alone CO to POP facilities should be counted as routes; however, it is      |
| 7  |    | obvious that in this scenario "carriers have the ability to use alternatives to the   |
| 8  |    | incumbent LEC's network" (TRO, ¶360) and therefore must be counted towards            |
| 9  |    | the transport triggers.   |
| 10 |    |   |
| 11 | Q. | FCCA WITNESS BALL CLAIMS THAT A CLEC MUST BE PROVIDING                                |
| 12 |    | SERVICE ON A GIVEN TRANSPORT ROUTE TO MEET THE SELF-                                  |
| 13 |    | PROVISIONING TRIGGER (P. 11). PLEASE COMMENT.   |
| 14 |    |   |
| 15 | A. | Mr. Ball's claim is incorrect. Unlike for loops, where the FCC requires that "each    |
| 16 |    | competing provider has () deployed its own DS3 facilities at that specific            |
| 17 |    | customer location and is serving customers via those facilities at that location,"    |
| 18 |    | (47 C.F.R. § 51.319(a)(5)(i)(A), emphasis added), the self-provisioning trigger for   |
| 19 |    | transport only requires that "the competing provider has deployed its own             |
| 20 |    | transport facilities and is operationally ready to use those transport facilities to  |
| 21 |    | provide dedicated DS3 transport along the particular route." (47 C.F.R. §             |
| 22 |    | 51.319(e)(2)(i)(A), emphasis added). Realizing that in most cases CLECs do not        |
| 23 |    | use their transport facilities to provide transport between ILEC central offices, the |
| 24 |    | FCC does not require that the CLEC currently provides transport on each specific      |
| 25 |    | route, but only that it is <u>operationally ready</u> to do so.                       |

| 1  | Q. | AT&T WITNESS BRADBURY CLAIMS THAT BELLSOUTH'S RELIANCE                               |
|----|----|--|
| 2  |    | ON DATA OTHER THAN DISCOVERY RESPONSES IN SOME CASES                                 |
| 3  |    | "CREATES A SERIOUS CONCERN REGARDING THE ACCURACY AND                                |
| 4  |    | RELIABILITY" OF BELLSOUTH'S CASE. PLEASE EXPLAIN WHY                                 |
| 5  |    | BELLSOUTH USED DATA THAT DIFFERED FROM SOME CARRIERS'                                |
| 6  |    | DISCOVERY RESPONSES.   |
| 7  |    |  |
| 8  | A. | Some CLECs responded to BellSouth's discovery requests by stating that they did      |
| 9  |    | not have transport facilities. However, as explained above, these carriers rely on a |
| 10 |    | misinterpretation of "route" in order to make this claim. In the absence of          |
| 11 |    | responses to discovery that comply with the definitions used by the FCC,             |

12 BellSouth had no other choice than to use its own data indicating that CLECs 13 have deployed fiber-based collocations in BellSouth central offices. Since most 14 CLECs, even when they disagree about the definition of dedicated transport, have 15 provided BellSouth with data on fiber-based collocations, there are only a few 16 cases BellSouth's records rather than some information gathered through 17 discovery responses have been used. As shown in Exhibit SWP-14, there are six 18 carriers from whom BellSouth is seeking discovery and there are four carriers that 19 provided incomplete data, which has been supplemented with BellSouth's 20 records. Finally, KMC, Xspedius and ITC^Deltacom refuse to provide BellSouth with any collocation data arguing that their facilities do not qualify as dedicated 21 22 transport has defined in the TRO. Since BellSouth may receive additional 23 discovery responses, it reserves the right to amend Exhibits SWP-6 to SWP-10 24 accordingly.

22

| 1  | Q. | HOW DO YOU RESPOND TO MR. DICKERSON'S TESTIMONY THAT                                |
|----|----|---|
| 2  |    | CLECS MAY NOT OWN PIECE PARTS OF A GIVEN ROUTE (P. 9)?                              |
| 3  |    |   |
| 4  | A. | It is possible that a particular CLEC may not own an entire interoffice segment.    |
| 5  |    | BellSouth does not disagree that the serving arrangement Mr. Dickerson describes    |
| 6  |    | may exist. However routes where this is demonstrated (none have to date) will be    |
| 7  |    | excluded from our analysis, and as we will of course incorporate new information    |
| 8  |    | as it becomes available through discovery. Mr. Dickerson is merely attempting to    |
| 9  |    | throw out hypotheticals in order to divert attention from the facts.                |
| 10 |    |   |
| 11 | Q. | IS THERE ANY CLEC FOR WHICH YOU MAY CHANGE THE NETWORK                              |
| 12 |    | ARCHITECTURE CONCLUSION THAT IS DETAILED IN YOUR DIRECT                             |
| 13 |    | TESTIMONY?  |
| 14 |    |   |
| 15 | A. | There is one. After examining the discovery responses and rebuttal testimony of     |
| 16 |    | FDN witness Hand, it is possible that FDN's specific architecture may require       |
| 17 |    | modification. The conclusion set forth in my direct testimony is that every fiber-  |
| 18 |    | based collocation is connected to every other fiber-based collocation in the same   |
| 19 |    | LATA, which connectivity assumption remains valid with FDN. The difference          |
| 20 |    | is that, contrary to the other CLECs, which use hub and spoke architectures,        |
| 21 |    | FDN's network apparently follows a daisy chain architecture in which certain        |
| 22 |    | links are leased from BellSouth, but not on a long-term basis. Notwithstanding      |
| 23 |    | that full connectivity may exist, there may be situations in which FDN routes       |
| 24 |    | traffic from one fiber-based collocation to another fiber-based collocation using a |
| 25 |    | link that does not qualify under the FCC's triggers analysis. BellSouth has served  |

| 1  |    | FDN with additional discovery and intends to participate in Mr. Hand's            |
|----|----|---|
| 2  |    | deposition, with the objective of gaining a fuller understanding of FDN's network |
| 3  |    | architecture. Based upon the outcome of the pending discovery and the             |
| 4  |    | deposition testimony, it may be necessary to modify Exhibits EXP-8 to EXP-10      |
| 5  |    | accordingly, and BellSouth reserves the right to do so.                           |
| 6  |    |   |
| 7  | V. | Transition  |
| 8  | Q. | XSPEDIUS WITNESS FALVEY (P. 23) STATES THAT ACCESS TO UNES                        |
| 9  |    | "SHOULD BE GRANDFATHERED WHERE FACILITIES ARE ALREADY                             |
| 10 |    | IN PLACE." PLEASE RESPOND.  |
| 11 |    |   |
| 12 | A. | The purpose of this proceeding is to determine where CLECs are not impaired       |
| 13 |    | without access to UNEs. It therefore makes no sense to find that a CLEC is not    |
| 14 |    | impaired, especially in cases where there are alternatives already available, yet |
| 15 |    | still require ILECs to provide access to UNEs.                                    |
| 16 |    |   |
| 17 | Q. | PLEASE ADDRESS THE PROPOSAL BY KMC WITNESS JOHNSON (P. 32,)                       |
| 18 |    | AND FCCA WITNESS BALL (PP. 68 - 69) THAT THE COMMISSION                           |
| 19 |    | ESTABLISH A TRANSITION FROM UNE RATES TO MARKET RATES BY                          |
| 20 |    | OCTOBER 2006 AND THE PROPOSAL OF ITC^DELTACOM WITNESS                             |
| 21 |    | BROWNWORTH (P. 7) AND ALLEGIANCE WITNESS ANDERSON (P. 13)                         |
| 22 |    | THAT A YEAR-LONG TRANSITION PERIOD IS APPROPRIATE.                                |
| 23 |    |   |
| 24 | A. | The multi-tiered approaches rely on the examples of transition plans set forth by |
| 25 |    | the FCC. However, transitioning facilities to a specific building or along a      |

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| 1  |    | specific route when there are alternatives available already does not require such a |
|----|----|--|
| 2  |    | complex approach. As explained in my rebuttal testimony, the fact that a carrier     |
| 3  |    | may want to take time to evaluate its options and negotiate terms with other         |
| 4  |    | carriers should not be cause for lengthy delays, or continued ILEC subsidization     |
| 5  |    | in areas in which no impairment exists. Protracted delays will only further          |
| 6  |    | postpone facilities-based competition.   |
| 7  |    |  |
| 8  | Q. | KMC WITNESS JOHNSON (P. 29 - P. 31) AND FCCA WITNESS BALL (P.                        |
| 9  |    | 69) SUGGEST THAT THE COMMISSION ESTABLISH A "CERTIFICATION                           |
| 10 |    | PROCESS" THAT WOULD APPARENTLY ALLOW INDIVIDUAL CLECS                                |
| 11 |    | ACCESS TO UNES AT LOCATIONS OR ALONG ROUTES WHERE A                                  |
| 12 |    | TRIGGER HAS BEEN MET. PLEASE ADDRESS.  |
| 13 |    |  |
| 14 | A. | Mr. Ball and Ms, Johnson are misrepresenting what the TRO says. In fact, in the      |
| 15 |    | discussion of the application of self-provisioning triggers for loops, the FCC says  |
| 16 |    | that:  |
| 17 |    | state commissions may believe notwithstanding satisfaction of this trigger           |
| 18 |    | for a particular customer location, that continued access to unbundled               |
| 19 |    | loops at the capacity level under analysis should be maintained at the               |
| 20 |    | customer location because impairment, in fact, remains due to the                    |
| 21 |    | existence of a barrier to further competitive facilities deployment at that          |
| 22 |    | location. An example of such a situation might be where a municipality               |
| 23 |    | has imposed a long-term moratorium on granting additional rights-of way              |
| 24 |    | permits along the routes necessary to serve the particular customer                  |
| 25 |    | location. In these circumstances, a state commission may file a petition             |

| 1  |    | for waiver with the Commission to maintain the incumbent LEC's                        |
|----|----|---|
| 2  |    | unbundling obligation at that location until the barrier identified in the            |
| 3  |    | waiver petition no longer exists. (TRO $\P336$ , emphasis added)                      |
| 4  |    |   |
| 5  |    | In the discussion of the application of self-provisioning triggers for dedicated      |
| 6  |    | transport, the FCC describes a similar situation, but says that it only applies when  |
| 7  |    | "deploying additional facilities is entirely foreclosed." (TRO ¶441). Thus, even      |
| 8  |    | though the FCC describes circumstances under which CLECs may be impaired              |
| 9  |    | despite the self-provisioning trigger having been met, it is clear from the language  |
| 10 |    | of the TRO (i.e., deployment of facilities is entirely foreclosed or the existence of |
| 11 |    | a barrier to further facilities deployment) and from the example provided (i.e.,      |
| 12 |    | long-term moratorium on rights of way) that such circumstances are extremely          |
| 13 |    | rare. Furthermore, it is important to understand that, contrary to what is suggested  |
| 14 |    | by Mr. Ball and Ms. Johnson, these situation would only apply for self-               |
| 15 |    | provisioning triggers, but not for wholesale triggers, and that the state commission  |
| 16 |    | would have to petition for a waiver with the FCC to maintain the ILEC's               |
| 17 |    | unbundling obligation. Obviously it makes this whole lengthy and complicated          |
| 18 |    | proceeding rather pointless if at the end, even a finding of no-impairment merely     |
| 19 |    | results in continued unbundling.  |
| 20 |    |   |
| 21 | Q. | DOES THIS CONCLUDE YOUR TESTIMONY?  |
| 22 |    |   |
| 23 | A. | Yes.  |
| 24 |    |   |

Errata for Shelley Padgett Direct Testimony filed on December 22, 2003 Surrebuttal Testimony filed on February 4, 2004 Docket No. 030852-TP

Direct

p. 8, line 10 Change "fiber-base loop" to "fiber-based loop"

Surrebuttal

p. 18, line 4 Insert a comma after "country"

 p. 19, line 10 Change "operationally readiness" to "operational readiness"
 p. 23, line 7 Delete "as" so that it reads "excluded from our analysis, and we will of course incorporate new information"

p. 24, line 4 Change "Exhibits EXP-8 to EXP-10" to "Exhibits SWP-6 to SWP-10"

### 1 I. INTRODUCTION

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| Q. | PLEASE STATE YOUR FULL NAME AND BUSINESS ADDRESS.                                  |
|----|--|
| A. | My name is Orville D. Fulp. My business address is 600 Hidden Ridge Drive,         |
|    | Irving, Texas 75038.   |
|    |  |
| Q. | BY WHOM ARE YOU EMPLOYED, AND IN WHAT CAPACITY?                                    |
| A. | I am employed by Verizon as Director - Regulatory.                                 |
|    |  |
| Q. | PLEASE BRIEFLY OUTLINE YOUR EDUCATIONAL BACKGROUND                                 |
|    | AND EXPERIENCE IN THE TELECOMMUNICATIONS INDUSTRY.                                 |
| A. | I have a Bachelor of Arts degree in Economics from the University of California,   |
|    | San Diego, and a Master of Science degree in Economics from the University of      |
|    | Wyoming.   |
|    |  |
|    | In 1981, I began working at the Illinois Commerce Commission in the Economics      |
|    | and Rates Department as Senior Economist, where I analyzed filings and testified   |
|    | in utility rate proceedings in the areas of pricing, cost of service, and demand   |
|    | analysis. In January of 1984, I transferred to the Policy Analysis and Research    |
|    | Division as Director of the Pricing Program. My responsibilities included          |
|    | developing policy concerning pricing in the telecommunications and energy          |
|    | fields.  |
|    |  |
|    | In 1985, I joined Contel as Manager Revenue Requirements/Pricing for the           |
|    | company's eastern region, and was responsible for rate case activity, tariff       |
|    | maintenance, surveillance of regulatory activities, and pricing of local exchange, |
|    | А.<br>Q.<br>А.<br>Q.   |

- toll and access services in six states.
- 2

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3 In 1991, I assumed the position of Manager – Access Pricing for GTE Telephone 4 Operations, and was responsible for the development of access pricing plans and 5 rates for interstate and intrastate purposes in 40 states. In 1994, I became 6 Director of Product Management Network Services (Wholesale Markets). Since 7 then, I have held various positions in GTE and Verizon involving pricing and 8 product management and operations. In December 2001, I assumed my current 9 position of Director - Regulatory. My current responsibilities include national 10 public policy and pricing matters.

11

### 12 Q. HAVE YOU PREVIOUSLY TESTIFIED BEFORE STATE UTILITY 13 COMMISSIONS?

A. Yes. I have testified on national public policy and pricing matters, including
several generic access charge dockets and other pricing related dockets over the
last 15 years, on behalf of various Verizon telephone companies before state
commissions in California, Florida, Illinois, North Carolina, South Carolina,
Georgia, Alabama, Maine, Vermont, New Hampshire, Pennsylvania, and
Washington.

20

### 21 Q. MR. WHITE, PLEASE STATE YOUR FULL NAME AND BUSINESS 22 ADDRESS.

- A. My name is John White. My business address is Sunset Drive, North Salem,
  New York.
- 25

### Q. BY WHOM ARE YOU EMPLOYED, AND IN WHAT CAPACITY?

2 A. I am a principal of 8 Degree Research and Consulting, Inc.

3

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# 4 Q. PLEASE BRIEFLY DESCRIBE YOUR EXPERIENCE IN THE 5 TELECOMMUNICATIONS INDUSTRY AND EDUCATIONAL 6 BACKGROUND.

- I was employed by Verizon, or by its affiliates and predecessor companies, 7 A. 8 from 1966 to November 2003. Before joining Verizon, I worked for a number 9 of engineering and construction firms. During my first 12 years at Verizon, I 10 was involved in virtually every aspect of Outside Plant telephone engineering. 11 From 1979 to 1994, I held managerial positions in Construction, Installation 12 and Maintenance, and Engineering, in both line and staff capacities. I was appointed Executive Director for Transport Technology Planning in 1994, and 13 14 became Executive Director Wholesale Services in June 2000 with responsibility 15 for introduction of wholesale digital services. In March of 2003, I was 16 appointed Executive Director for Fiber to the Premises.
- 17

I began undergraduate engineering studies at the University of Buffalo and went on to receive a Bachelors Degree in Business Administration and a Masters in Business Administration from Pace University. I have also continued graduate work at Pace University in Finance and Economics as part of Doctorate of Professional Studies Program.

23

In November 2003, I left Verizon and started my own consulting company, 8
Degree Research and Consulting, Inc.

### Q. HAVE YOU PREVIOUSLY TESTIFIED BEFORE STATE UTILITY COMMISSIONS?

Yes, I have testified before the FCC and state commissions in connection with 3 A. 4 Verizon's applications for long distance entry (*i.e.*, 271 proceedings) for New 5 York, Massachusetts, Pennsylvania, New Jersey, Vermont, New Hampshire, 6 Maine, Virginia, Maryland, District of Columbia and West Virginia. I also 7 testified in UNE proceedings in New York, Massachusetts, the District of 8 Columbia, Maryland, New Jersey and Pennsylvania. I have also been involved 9 in a number of arbitrations related to DSL services and line sharing in New 10 York, Massachusetts, Maryland and Pennsylvania.

11

### 12 Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

13 Α. The first portion of our testimony addresses dedicated transport. According to the 14 FCC's Triennial Review Order ("TRO"), a state commission must find that 15 competing carriers are not impaired without access to Verizon's unbundled 16 dedicated interoffice transmission (or transport) facilities if Verizon meets either 17 of two objective "triggers." We describe the FCC's transport triggers and explain 18 how they are applied. Then, we present Verizon's evidence, drawn from internal 19 and public sources, that other carriers have deployed fiber transport routes in 20 LATA 952 meeting one or both of the FCC's triggers.

21

The second portion of our testimony addresses high capacity loops. The FCC in its *Triennial Review Order* established two triggers for state commissions to apply to determine whether competing carriers are impaired without access to Verizon's unbundled high capacity loops. We explain that because information about where carriers other than Verizon have deployed high capacity loops is almost
 exclusively within the control of those other carriers, Verizon cannot present a
 triggers case for high capacity loops until it receives and analyzes information
 from those carriers through the discovery process.

5

6 Verizon specifically reserves the right to supplement its testimony because it has 7 not received responses to the Florida Public Service Commission Staff's ("Staff") 8 TRO data request issued on November 12, 2003 to CLECs and Alternative Access 9 Vendors. The responses to the Staff's data request are critical to Verizon's ability 10 to pursue its dedicated transport and high capacity loop triggers cases. Once 11 Verizon has received and analyzed the data, it may need to supplement this 12 testimony. In addition, while the Triennial Review Order authorizes Verizon to 13 present a potential deployment case, it will not do so at this time.

14

16

### 15 II. DEDICATED INTEROFFICE TRANSPORT TRIGGERS

A. Description of the Triggers for Dedicated Interoffice Transport

### 17 Q. WHAT ARE DEDICATED INTEROFFICE TRANSPORT FACILITIES?

18 "Dedicated interoffice transmission facilities (transport) are facilities dedicated to Α. 19 a particular customer or competitive carrier that it uses for transmission among incumbent LEC central offices and tandem offices." TRO ¶ 361. The FCC's 20 definition excludes "shared transport," which are transmission facilities shared by 21 22 more than one carrier. TRO ¶ 361, n.1100, ¶ 533, n.1633. Therefore, the CLEC 23 facilities that are of interest for purposes of this trigger are those dedicated 24 transport facilities that directly or indirectly connect Verizon wire centers or 25 switches.

# Q. PLEASE DESCRIBE THE FCC'S TWO OBJECTIVE TRIGGERS FOR IDENTIFYING WHERE CLECS ARE NOT IMPAIRED WITHOUT ACCESS TO VERIZON'S UNBUNDLED DEDICATED TRANSPORT FACILITIES?

5 In its Triennial Review Order, the FCC found that requesting carriers are impaired Α. 6 on a nationwide basis without access to unbundled dark fiber, DS1, and DS3 7 dedicated transport facilities. TRO ¶ 359. The FCC recognized, however, that 8 competing carriers often self-provision dedicated transport facilities or obtain 9 them on a wholesale basis from carriers other than the incumbent LEC. The FCC 10 authorized state commissions to determine the specific routes that meet one or 11 both of two objective triggers - which show that CLECs are already providing 12 non-ILEC transport facilities, either to themselves (self-provisioning trigger) or to other carriers (wholesale trigger). If a state commission finds that either trigger is 13 met for a route, the state commission "must make a finding of non-impairment," 14 15 and "the incumbent LEC will no longer be required to unbundle that transport along that route []" TRO ¶ 400, 411; see also TRO ¶ 405. In other words, when 16 17 a transport route meets one or both of the FCC's triggers, the state commission conducting the route-specific review *must* find that the FCC's national finding of 18 19 impairment has been overcome.

20

The first of the FCC triggers looks at whether competing carriers have *selfdeployed* or *self-provisioned* dark fiber and DS3 capacity transport facilities. Under the self-provisioning trigger, the Commission must find no impairment if *three or more* unaffiliated competing carriers have deployed along a particular route their own dark fiber or DS3 transport facilities. TRO ¶ 405-411. The FCC 1 has also determined that the self-provisioning trigger is satisfied if, on a particular 2 route and for dark fiber and DS3 facilities, there are at least two unaffiliated 3 competing carriers using their own interoffice transport facilities, and at least one additional carrier willing to provide transport facilities at wholesale. TRO ¶ 408 4 Leased "dark fiber" is considered to be that carrier's own fiber for 5 n.1264. purposes of applying the self-provisioning trigger. If the carrier has attached its 6 7 own electronics to activate the leased dark fiber at a DS3 level, the activated fiber 8 is also considered the carrier's own. TRO ¶ 408.

9

10 The second FCC trigger looks at whether dark fiber, DS1, and DS3 interoffice 11 transport facilities are available from other carriers on a *wholesale* basis. Under 12 this test, competing carriers are not impaired without access to Verizon's transport facilities if there are "two or more alternative transport providers, not affiliated 13 with each other or the incumbent LEC, immediately capable and willing to 14 provide transport at a specific capacity of transport on a route." TRO ¶ 400. Dark 15 fiber that is leased from a carrier other than the incumbent LEC, and then offered 16 17 on a wholesale basis, is considered to be the buying carrier's own dark fiber. Similarly, dark fiber obtained as an unbundled network element from Verizon 18 19 counts as the buying carrier's own fiber if that carrier attaches its own electronics 20 and offers the activated fiber at wholesale. TRO ¶ 416.

21

### 22 Q. WHAT IS A ROUTE?

A. As defined by the FCC, a "route" is any direct *or indirect* connection between two
Verizon wire centers or switches. In other words, "a 'route' may connect Verizon
wire centers or switches that are not directly connected to each other." TRO ¶ 402

n.1246. Thus, under the FCC's definition of a route, if a pair of Verizon wire centers meets either of the FCC's two triggers, competing carriers are not entitled to unbundled access to Verizon dedicated interoffice transmission facilities that

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### 6 Q. WHAT DOES THE FCC REQUIRE AS FAR AS OPERATIONAL 7 READINESS?

directly or indirectly connect that pair of wire centers.

8 A. To count toward the triggers, the FCC requires the transmission facility to be 9 "operationally ready" to provide transport between Verizon wire centers. This 10 condition is satisfied if a carrier has an operational collocation arrangement and 11 has pulled fiber into that arrangement (generally known as "fiber-based 12 collocation"). The FCC made clear in its Triennial Review order that 13 "[c]ollocation may be in a more traditional collocation space or fiber can be 14 terminated on a fiber distribution frame." TRO ¶ 406 n.1257.

15

## 16 Q. PLEASE SUMMARIZE THE FCC'S RULES CONCERNING ITS TWO 17 OBJECTIVE TRIGGERS FOR DEDICATED INTEROFFICE 18 TRANSPORT?

19 A. To summarize the FCC's regulations:

The self-provisioning transport trigger requires that a route direct or
 indirectly connecting a pair of Verizon wire centers have at least the
 same three competing carriers (or at least the same two competing
 carriers and a wholesale provider), with operational, fiber-based
 collocation arrangements, and that these carriers have deployed dark
 fiber or DS3 level transport facilities.

The wholesale transport trigger requires that a route directly or
 indirectly connecting a pair of Verizon wire centers have at least two
 wholesale providers, with operational, fiber-based collocation
 arrangements, offering dark fiber, DS1 or DS3 level transport facilities
 to other carriers.

• If either trigger is met, Verizon is no longer required to make available unbundled dedicated transport on any Verizon transmission routes that directly or indirectly connect that pair of Verizon wire centers.

In the diagram below, we illustrate how local exchange carriers, both incumbent 10 11 LECs and CLECs, typically connect to Verizon wire centers using dedicated 12 interoffice transport. In this diagram, three CLECs have dedicated interoffice transport on operational fiber between their respective collocation arrangements in 13 Verizon Wire Centers A and B. Each of these CLECs has dark fiber in their 14 transport facilities, and each has channelized their facilities to provide DS3 and 15 16 DS1 level services. The FCC's self-provisioning trigger is met in this example because CLECs 1, 2, and 3 have deployed their own operational fiber with dark 17 18 fiber and DS3 level services on the route between Verizon Wire Centers A and B. And if we assume that CLECs 1 and 2 offer their transport facilities to other 19 carriers, then the arrangement also meets the FCC's wholesale trigger for dark 20 21 fiber, DS1, and DS3.

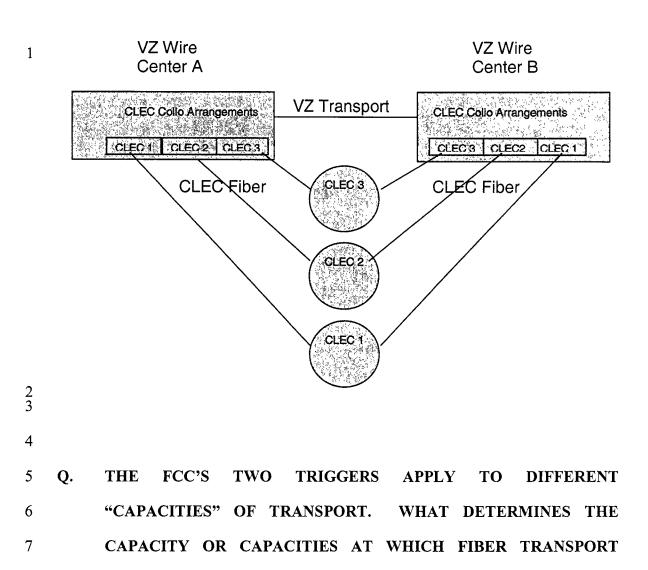
22

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- 25



### 8 FACILITIES OPERATE?

9 A. The capacity of fiber optic cable is almost exclusively based on the equipment that 10 a carrier attaches to activate or "light" the fiber. As the FCC found in its Triennial 11 Review Order, when carriers deploy new transport facilities, they deploy fiber 12 optic facilities, and those facilities can operate at a wide range of capacities, from 13 DS0 to OC192. TRO ¶ 372. Fiber optic cable is also "channelized" – that is, 14 larger capacity facilities are subdivided into smaller capacity facilities - by 15 attaching the appropriate electronics at both ends of the fiber cable to provide 16 these various capacities. For example, lower capacity DS1 and DS3 facilities are 17 channelized simultaneously within the larger capacity OC12 or OC48 facility.

- The electronic equipment used to activate these various levels of capacity is
   widely available.
  - 3

### 4 Q. WHAT DOES IT MEAN TO OPERATE A FIBER OPTIC TRANSPORT 5 FACILITY AT OCN, DS1, OR DS3 LEVELS OF CAPACITY?

A. OCn transport refers to the technical distinction (*i.e.*, Optical Carrier or "OC") and
the capacity (*i.e.*, "n") of fiber optic cable. For example, an optical carrier-level 3
– or OC3 capacity circuit – is capable of transporting up to three DS3 circuits (an
OC3 is approximately 155 Mbps, while three DS3s are 135 Mbps), but terminates
on a different type of electronic interface.

11

DS1 and DS3 transport likewise refer to the technical distinction (*i.e.*, Digital Signal or "DS") and capacity. The elemental speed is a DS0, which is a voice grade line with a bandwidth of 64 Kbps. A DS1 capacity circuit contains the equivalent of 24 voice-grade or DS0 channels. A DS3 capacity circuit contains the equivalent of 28 DS1 channels or 672 DS0 channels.

17

18 Q. THE FCC'S DEDICATED TRANSPORT TRIGGERS ARE
 19 SEPARATELY APPLIED TO DARK FIBER FACILITIES. WHAT IS
 20 DARK FIBER?

A. Dark fiber is fiber optic strands of cable that have been deployed, but have not been activated or "lit" through connections to electronics (which would make the fiber capable of carrying communications). *See, e.g.*, TRO ¶ 359 n.1097, 381.

- 24
- 25

- 1 Verizon's Evidence Of Routes Meeting The Triggers В. 2 О. PLEASE DESCRIBE VERIZON'S EVIDENCE OF INTEROFFICE 3 TRANSPORT ROUTES IN TAMPA THAT MEET THE FCC'S 4 **TRANSPORT TRIGGERS?** 5 Α. Verizon has evidence that 67 pairs of Verizon wire centers -- that is, 67 direct 6 routes -- in the Tampa LATA meet one or both of the FCC's transport triggers. 7 Specifically, there are 29 direct routes meeting the FCC's self-provider trigger, 8 and 67 routes meeting the FCC's wholesale provider trigger. 9 10 Attached to our testimony as Exhibit A is a map presenting the direct transport
  - 11 routes in the Tampa LATA meeting one or both of the FCC's dedicated transport 12 triggers. The direct transport routes (or pairs of Verizon wire centers) are shown as blue lines. Notably, although there are scores of Verizon wire centers in the 13 14 Tampa LATA, based just on internal and publicly available data, Verizon seeks 15 relief for direct routes that originate or terminate in only 16 wire centers. CLEC 16 responses to the Commission Staff's TRO Data Request could reveal more direct routes that meet the FCC's transport triggers. The blue lines in downtown Tampa 17 and the St. Petersburg area illustrate the many direct routes meeting the FCC's 18 19 triggers and reflect the vast amount of fiber that carriers other than Verizon have 20 deployed over the last decade. As you would expect, the wire centers with 21 with operational, fiber-based collocation multiple competing carriers arrangements tend to be clustered in these highly populated urban areas, namely, 22 23 downtown Tampa, the suburban area just northwest of downtown Tampa, St. 24 Petersburg, and Sarasota.

## Q. PLEASE DESCRIBE VERIZON'S EVIDENCE OF DIRECT TRANSPORT ROUTES IN THE TAMPA LATA MEETING THE SELF PROVISIONING TRIGGER?

4 Α. Verizon's evidence shows that there are 29 pairs of Verizon wire centers -- or 29 5 direct routes -- in the Tampa LATA meeting the FCC's self-provisioning trigger 6 for dark fiber and DS3 capacity facilities. Each pair of Verizon wire centers has (at least) the same three unaffiliated competing carriers with operational, fiber-7 8 based collocation facilities. In fact, in the Tampa LATA, approximately 18 pairs 9 of Verizon wire centers have four or more unaffiliated competing carriers with 10 operational, fiber-based collocation arrangements, and 10 pairs have 5 or more 11 unaffiliated carriers – well exceeding the FCC's self-provisioning trigger.

12

Verizon's evidence on the direct transport routes in the Tampa LATA meeting the
FCC's self-deployment trigger is presented in Exhibit B. The proprietary version
of Exhibit B identifies the competing carriers with operational, fiber-based
collocation arrangements in the Verizon wire centers. CLEC names are removed
from the public version of Exhibit B.

18

19 The first Verizon wire center in the pair of wire centers – Beach Park 20 (BHPKFLXA) -- is shown in the first two columns of Exhibit B (which are 21 labeled "Wire Center 1" and "Wire Center 1 Name"). The third and fourth 22 columns show that 6 other Verizon wire centers in the Tampa LATA – Clearwater 23 (CLWRFLXA), Sweetwater (SWTHFLXA), Tampa Tandem (TAMPFLXA), 24 Tampa East (TAMPFLXE), Tampa Main (TAMPFLXX), and Tampa Westside 25 (WSSDFLXA) – have at least three CLECs in common with the Verizon Beach

Park wire center.

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3 The next pair of Verizon wire centers identified in Exhibit B is Clearwater 4 (CLWRFLXA) and Countryside (CNSDFLXA). In addition to Countryside, the 5 Verizon Clearwater wire center has at least three competing carriers in common 6 with five other Verizon wire centers: Pinellas (PNLSFLXA), St. Petersburg Main 7 (SPBGFLXA), Sweetwater (SWTHFLXA), Tampa East (TAMPFLXE), and 8 Tampa Westside (WSSDFLXA).

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9

#### 10 **Q**. PLEASE DESCRIBE **VERIZON'S EVIDENCE** OF DIRECT 11 TRANSPORT ROUTES MEETING THE FCC'S WHOLESALE 12 **PROVIDER TRIGGER?**

- 13 A. In the Tampa LATA, 67 pairs of Verizon wire centers meet the FCC's wholesale 14 provider trigger for dark fiber, and DS1 and DS3 capacity facilities. Each pair of 15 Verizon wire centers has (at least) the same two or more carriers that offer 16 transport services to other carriers, i.e., at wholesale. Approximately 24 pairs of 17 Verizon wire centers have three or more unaffiliated wholesale providers of transport services, and 15 pairs of Verizon wire centers have 4 or more 18 19 unaffiliated wholesale providers of transport services.
- 20

21 The evidence Verizon has developed from internal and public sources on the 22 direct transport routes meeting the FCC's wholesale provider trigger is shown, 23 by Verizon wire center and wholesale provider, in Exhibit C. For example, 24 Exhibit C shows that the Verizon Bayou wire center (BAYUFLXA) has the 25 same two wholesale providers in common with the Clearwater, Countryside,

1 Pinellas, St. Petersburg Main, and Sarasota Main wire centers (respectively, 2 CLWRFLXA, CNSDFLXA, PNLSFLXA, SPBGFLXA, and SRSTFLXA). 3 4 The vast majority of competing carriers that have deployed fiber transport 5 facilities for their own use have indicated in their website materials and other 6 public statements that they will lease those facilities to other carriers. For this 7 reason, based on the criteria that Verizon used to identify which carriers offer 8 transport facilities at wholesale (described below), most pairs of Verizon wire 9 centers that meet the self-deployment trigger also meet the wholesale provider 10 trigger. 11 12 Exhibit D depicts the pairs of Verizon wire centers that meet either of the FCC's 13 two transport triggers. 14 15 Some companies have deployed fiber transport facilities primarily, if not 16 exclusively, for use by other carriers. In the Tampa LATA, these companies 17 include FPL FiberNet and Progress Telecom. This explains why there are 38 18 pairs of Verizon wire centers that meet the FCC's wholesale provider trigger, but 19 not the self-provisioning trigger. 20 21 **Q**. ARE THE DEDICATED TRANSPORT FACILITIES THAT VERIZON 22 HAS **IDENTIFIED** AS **MEETING** THE FCC'S TRIGGERS 23 **OPERATIONAL, AND DO THEY CONTAIN FIBER?** 24 A. Yes. To count toward either of the FCC's triggers, the CLEC transport 25 facility must be "operationally ready to provide transport into or out of" the

1 Verizon wire centers, *i.e.*, the carrier's collocation facility must be provisioned 2 and powered, and its fiber must have been pulled into the collocation arrangement. 3 TRO ¶ 406 nn.1256, 1257. We are confident that the transport facilities that 4 Verizon has identified as meeting one or both of the FCC's triggers both meet the 5 FCC's definition of "operationally ready" and use fiber optics. We have reached this conclusion because, last summer, Verizon conducted visual inspections of all 6 7 collocation arrangements included in this triggers case. Inspectors checked each 8 collocation facility in those Verizon wire centers to verify that there is powered 9 equipment in place (*i.e.*, it is operational), and that the collocating carrier had non-10 Verizon fiber optic cable that both terminated at its collocation facility and left the 11 wire center. Verizon adopted rigorous controls to ensure the reliability of these 12 data, including supervision by the director in charge of provisioning collocation throughout Verizon, written procedures for each step of the visual inspection 13 14 process, standard forms that were filled out by each inspector, signed statements 15 by the inspectors verifying the accuracy and reliability of the information provided 16 and the inspector's compliance with the written procedures, and signed statements 17 by each inspector's supervisor confirming that the inspector followed the appropriate procedures. A collocation arrangement is included in Verizon's 18 19 triggers case only if, through this rigorous process of visual inspection and 20 verification, it was found to be operational and to have non-Verizon fiber.

21

Verizon's approach in this initial testimony has been conservative. Of the 90
Verizon wire centers in Florida, Verizon visually inspected 29 wire centers (or
32%) and seeks relief from this Commission for routes that originate and
terminate in an even lower percentage of Verizon wire centers. Put differently,

there are over 4000 possible intraLATA direct transport routes in Florida, but
 Verizon is asking the Commission for relief for only 67 direct routes or pairs of
 Verizon wire centers (less than 2%).

4

# Q. IF A CARRIER HAS OPERATIONAL FIBER IN TWO VERIZON WIRE CENTERS IN THE TAMPA LATA, IS IT REASONABLE FOR THE COMMISSION TO ASSUME THAT THE CARRIER HAS A TRANSPORT ROUTE DIRECTLY OR INDIRECTLY CONNECTING THOSE VERIZON WIRE CENTERS?

10 Yes. When carriers in Verizon's territories deploy their own fiber transport Α. 11 facilities, they typically deploy fiber optic rings that connect to their points-of-12 presence (or "POPs") in the LATA and various customer premises, in addition to connecting to Verizon's wire centers. Therefore, if the same carrier has fiber-13 14 based facilities in two Verizon wire centers in a LATA, it is very reasonable to 15 assume that those fiber facilities are part of a CLEC-operated ring and that traffic 16 can be directly or indirectly routed from one Verizon wire center to the other. It is 17 also reasonable to assume that these CLEC-operated fiber rings connect to the 18 CLEC's POP, and that traffic can flow to and from all parts of the carrier's 19 network through the POP.

20

Given that it is widely recognized that CLECs that deploy their own fiber tend to build fiber rings, the burden is now properly put on competing carriers if they wish to attempt to show that a specific route cannot in fact be connected within their network. Absent such particularized, route-specific evidence, however, the Commission should rely on Verizon's evidence that these carriers' networks 1 2 connect together the transport facilities we have shown exist at each end of each identified route.

3

# 4 Q. DO YOU BELIEVE THAT THESE FIBER TRANSPORT FACILITIES 5 DEPLOYED BY OTHER CARRIERS ARE USED FOR DS1 AND DS3 6 TRANSPORT?

7 Α. Yes. In identifying the routes meeting the FCC's triggers, Verizon made the 8 reasonable assumption that when competing carriers deploy fiber and attach OCn 9 electronics (e.g., OC48 multiplexers), they then subdivide -- *i.e.*, channelize -- the 10 OCn system into the lower transport levels required by their customers, including DS3s and DS1s. There is no doubt that fiber transport facilities are *capable* of 11 12 operating at various levels of capacity, as evidenced by the carriers' own statements on their company websites. The capacity of the fiber is almost entirely 13 a function of the electronics that a carrier attaches, not something inherent in the 14 15 fiber itself. Once the fiber is deployed, it is operated at a DS1, DS3, OC48 or 16 higher level – or at all of these levels simultaneously – simply by changing the 17 electronics. It is also beyond dispute that the electronics used to channelize the 18 OCn system to DS1 and DS3 transport levels are commonly available. For example, Level 3 describes its (3)Hub service for allowing customers to activate 19 and control circuits as follows: 20

21 "For example, a single OC-48 (3) Hub facility might consist of one
22 OC-3 circuit on Tuesday—then get upgraded by the customer to
23 six OC-3s and two DS-3s the following Wednesday." [Exhibit E.
24 4: www.level3.com/2234.html]

Verizon's assumption that competing carriers who deploy fiber optics generally 1 2 build OCn level transport facilities, capable of channelization to DS1 or DS3, is also consistent with standard industry practices. Few if any carriers deploy 3 transport facilities to accommodate only a DS1 or only a DS3. TRO ¶¶ 386, 391. 4 5 To the contrary, as the FCC found in its Triennial Review Order, carriers deploying fiber transport facilities almost always build at an OCn speed. TRO ¶ 6 7 382 ("The record indicates that when competing carriers self-deploy transport 8 facilities, they often deploy fiber optic facilities that are activated at OCn levels."). 9 AT&T reports that it, along with "most carriers, including incumbent LECs," TRO ¶ 372 n.1144, generally constructs its interoffice transport networks at an 10 11 OC48 capacity. Verizon's interoffice transport facilities likewise are generally 12 built at an OC48 capacity.

13

These CLEC-deployed OCn facilities are then subdivided or channelized to a DS1 or DS3 level because these are the levels at which transport is typically requested by end user customers. There is considerable public evidence from competing carriers' websites that they deploy DS3 and DS1 circuits over their OC transport facilities. This evidence is appended to this testimony as Exhibit E, and separately numbered within that exhibit, as follows.

20 • AT&T: Exhibit E.1

AT&T offers private line services with bandwidth options including "Single Channel, Fractional T1, T1 and High- Speed Services including Fractional T3, T3, Reserve T3, SONET OC3 and OC12, and OC48 and OC192 Wavelengths." [www.business.att.com]

• FPL FiberNet: Exhibit E.2

| 1  | FPL FiberNet provides "wholesale fiber optic service with bandwidth        |
|----|--|
| 2  | capacity from DS-3 to OC-192 for long distance companies, CLECs,           |
| 3  | BLECs, ISPs, ASPs, and other communications related businesses within      |
| 4  | the major metropolitan areas of Florida." [www.fplfibernet.com]            |
| 5  | • KMC Telecom: Exhibit E.3   |
| 6  | KMC Telecom offers "DS-1 to OC-n access hubs".                             |
| 7  | [www.kmctelecom.com]   |
| 8  | • Exhibit E.4: Level 3   |
| 9  | Level 3 provides (3)Hub facilities and Private Line Metro service at       |
| 10 | speeds from DS-3 to OC-48. The individual circuits within the (3)Hub       |
| 11 | facility are available from DS-1 through OC-48, and E-1 to STM-16          |
| 12 | bandwidths." [www.level3.com]  |
| 13 | • Progress Telecom: Exhibit E.5  |
| 14 | Progress Telecom is a wholesale provider offering private line services    |
| 15 | ranging from E-1, DS-3, OC-3 through OC-192, STM-1 through STM-64.         |
| 16 | [www.progresstelecom.com]  |
| 17 | • SBC Telecom: Exhibit E.6   |
| 18 | SBC Telecom's "Private Line Service offers several transport options with  |
| 19 | bandwidth ranging from 1.5Mbps (DS1) to 622 Mbps (OC12)."                  |
| 20 | [www.sbctelecom.com]   |
| 21 | • TelCove: Exhibit E.7   |
| 22 | TelCove (Adelphia Business Solutions) advertises transport at a full range |
| 23 | of capacities, from DS1 to OC48. [www.telcove.com]                         |
| 24 | • Time Warner: Exhibit E.8   |
| 25 | Time Warner claims to be "the leading provider of metro-area broadband     |

| 1  |                 | optical networks and services to businesses" and offers "dedicated high   |
|--|-----------------|---|
| 2  |                 | capacity services (DS1/DS3), digital trunks, and ISDN PRI."   |
| 3  |                 | [www.twtelecom.com]   |
| 4  |                 | • MCI WorldCom: Exhibit E.9   |
| 5  |                 | MCI claims to have "the most scalable IP network available," and offers   |
| 6  |                 | end users "speeds from dial to OCn48." [http://global.mci.com]  |
| 7  |                 | • XO: Exhibit E.10  |
| 8  |                 | XO offers carrier private line services at bandwidth from DS1 (1.5 Mbps)  |
| 9  |                 | to DS3 (45 Mbps)to OC-n [www.xo.com]  |
| 10   |                 | • Xspedius: Exhibit E.11  |
| 11   |                 | Xspedius provides special access, ISDN-PRI and collocation services.  |
| 12   |                 | [www.xspedius.com]  |
| 13   |                 |   |
| 14   |                 | The assumptions underlying Verizon's self-deployment trigger case are entirely  |
| 14   |                 | The assumptions underlying verizon s sen deproyment digger case are entitely  |
| 14   |                 | consistent with the way transport facilities commonly are constructed and   |
|  |                 |   |
| 15   |                 | consistent with the way transport facilities commonly are constructed and   |
| 15<br>16                                     |                 | consistent with the way transport facilities commonly are constructed and<br>operated. The Commission therefore should find that self-provisioned fiber optic   |
| 15<br>16<br>17                               |                 | consistent with the way transport facilities commonly are constructed and<br>operated. The Commission therefore should find that self-provisioned fiber optic<br>transport facilities carry individual DS3 circuits unless a carrier shows, for a   |
| 15<br>16<br>17<br>18                         | Q.              | consistent with the way transport facilities commonly are constructed and<br>operated. The Commission therefore should find that self-provisioned fiber optic<br>transport facilities carry individual DS3 circuits unless a carrier shows, for a   |
| 15<br>16<br>17<br>18<br>19                   | Q.              | consistent with the way transport facilities commonly are constructed and<br>operated. The Commission therefore should find that self-provisioned fiber optic<br>transport facilities carry individual DS3 circuits unless a carrier shows, for a<br>particular route, that it is not carrying DS3 circuits over its fiber facility.  |
| 15<br>16<br>17<br>18<br>19<br>20             | <b>Q.</b><br>A. | consistent with the way transport facilities commonly are constructed and<br>operated. The Commission therefore should find that self-provisioned fiber optic<br>transport facilities carry individual DS3 circuits unless a carrier shows, for a<br>particular route, that it is not carrying DS3 circuits over its fiber facility.<br><b>DO THESE FIBER TRANSPORT FACILITIES ALSO CONTAIN DARK</b>  |
| 15<br>16<br>17<br>18<br>19<br>20<br>21       | _               | consistent with the way transport facilities commonly are constructed and<br>operated. The Commission therefore should find that self-provisioned fiber optic<br>transport facilities carry individual DS3 circuits unless a carrier shows, for a<br>particular route, that it is not carrying DS3 circuits over its fiber facility.<br><b>DO THESE FIBER TRANSPORT FACILITIES ALSO CONTAIN DARK</b><br><b>FIBER?</b>   |
| 15<br>16<br>17<br>18<br>19<br>20<br>21<br>22 | _               | consistent with the way transport facilities commonly are constructed and<br>operated. The Commission therefore should find that self-provisioned fiber optic<br>transport facilities carry individual DS3 circuits unless a carrier shows, for a<br>particular route, that it is not carrying DS3 circuits over its fiber facility.<br><b>DO THESE FIBER TRANSPORT FACILITIES ALSO CONTAIN DARK</b><br><b>FIBER?</b><br>Yes. It is virtually certain that self-provisioned transport facilities have dark fiber. |

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facilities, regardless of the capacities at which they now operate, once consisted entirely of dark fiber. Put differently, evidence of "lit" fiber automatically is evidence that a carrier has self-provisioned dark fiber.

5 Additionally, as a matter of basic network engineering and sound economics, the 6 vast majority of self-provisioned fiber transport facilities will have spare fibers. It 7 is simply inconceivable that a carrier would incur the "large fixed and sunk costs 8 [] required to self-provision fiber transport facilities," including the costs of 9 obtaining rights of way, digging up the streets and attaching cable to poles, and 10 deploying the fiber, without leaving even a single strand of dark fiber. Fiber 11 transport facilities are always installed with extra fiber to meet projected demand 12 growth. Furthermore, fiber cables are commonly manufactured and deployed in 13 increments of 12 fiber strands (*i.e.*, 12, 24, 48, etc., fibers per cable), but OCn 14 electronics (e.g., fiber multiplexers) generally require only 4 fibers to activate 15 ("light") the fiber to provide dedicated transport.

16

Here again, Verizon has come forward with evidence showing that these carriers'
fiber transport facilities almost certainly also include dark fiber as shown in
Exhibits E.1 through E.11. For example:

- FPL FiberNet advertises its product offering to include "metro dark
   fiber, inter- and intra-city transport, DS3 and optical hubs, metro
   wavelengths, co-location services and gigabit Ethernet." (emphasis
   added) [Exhibit E.2]
- Level 3 advertises its services to include "wholesale internet access
   services, managed modern dial-up services, broadband transport, IP-

| 1  |    | centric voice services, private packet-switched services, DSL                       |
|----|----|---|
| 2  |    | aggregation, collocation, metropolitan and intercity dark fiber, [and]              |
| 3  |    | managed services." (emphasis added) [Exhibit E.4]                                   |
| 4  |    | • Xspedius provides dark fiber and inventory conduit in six core Tier I             |
| 5  |    | markets across the United States, has access to assets in over 30                   |
| 6  |    | additional Tier II and III cities, and long haul in Florida and Texas.              |
| 7  |    | [Exhibit E.11]  |
| 8  |    | The burden is now on competing carriers to show that a specific route in fact has   |
| 9  |    | no dark fiber on it. Absent such particularized, route-specific evidence, however,  |
| 10 |    | the Commission should rely on Verizon's evidence that these carriers' fiber         |
| 11 |    | networks also include available dark fiber on each identified route.                |
| 12 |    |   |
| 13 | Q. | HOW DID VERIZON IDENTIFY CARRIERS OFFERING DEDICATED                                |
| 14 |    | TRANSPORT FACILITIES ON A WHOLESALE BASIS, AND THE                                  |
| 15 |    | CAPACITIES AT WHICH THOSE FACILITIES ARE OFFERED?                                   |
| 16 | Α. | There is considerable public evidence that allows Verizon to identify carriers that |
| 17 |    | are likely to office dedicated transport at to other carriers.                      |
| 18 |    | • If a carrier holds itself out as a wholesale provider on its website and          |
| 19 |    | does not limit its representation to particular routes Verizon identified           |
| 20 |    | the carrier as a wholesale provider.  |
| 21 |    | • Carriers that supply transport facilities to Universal Access, Inc. are           |
| 22 |    | wholesale providers, and Verizon has identified them as such.                       |
| 23 |    | Universal Access is a broker of transport services, and is a certificated           |
| 24 |    | carrier in all of Verizon's territories, including Florida. All carriers that       |
| 25 |    | sell transport facilities to Universal Access are selling to another carrier,       |

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1 and, therefore, are appropriately considered wholesale providers. In 2 addition, Universal Access indicates in its web site materials that many 3 of its customers are carriers, further supporting Verizon's conclusion 4 that Universal Access' suppliers are wholesale providers. [Exhibit E.12] 5 Verizon identified a carrier as a wholesale provider if it is listed in the 6 New Paradigm CLEC Report 2003 as offering dedicated access 7 transport, unless the offering is limited to particular routes, and unless 8 the carrier indicates that it will not provide its dedicated access transport 9 to other carriers. The New Paradigm Resources Group ("NPRG"), 10 which prepared the New Paradigm CLEC Report, provides, among 11 other things, business planning advice to CLECs. NPRG reports that it 12 gets information from the CLECs themselves, and provides these 13 carriers with the opportunity to provide direct input on coverage.

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The vast majority of the carriers that Verizon has identified as offering wholesale meet more than one of these criteria. For example, MCI WorldCom is identified in the *New Paradigm Report* as offering dedicated access transport (and there is no indication that MCI WorldCom will not sell to another carrier), and also advertises its wholesale services on its website. In addition, a number of the carriers that Verizon has identified as wholesale providers, such as Telecove, have filed competitive access tariffs in Florida.

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Verizon has offered the Commission evidence showing that these carriers hold themselves out as offering transport facilities on a wholesale basis. The burden is now on competing carriers to show that a specific route is not available at wholesale. Absent such particularized, route-specific evidence, however, the
 Commission should rely on Verizon's evidence of a carrier's general willingness
 to offer its transport facilities on a wholesale basis and treat all such carrier's
 transport facilities as available for leasing at wholesale.

5 Finally, Verizon assumes that a carrier that has deployed fiber transport facilities 6 and is willing to provide transport over those facilities to other carriers is 7 providing (or is willing to provide) various levels of capacity at wholesale, 8 including dark fiber, DS1, and DS3. This assumption is supported by substantial 9 public evidence, which is appended to this testimony as Exhibit E and separately 10 numbered within that Exhibit. For example:

- FPL FiberNet offers its wholesale customers metro dark fiber, inter- and intra-city transport, DS3 to OC192 circuits, optical hubs, metro wavelengths and collocation services in most metropolitan cities throughout Florida, including Tampa.
- Level 3 offers dark fiber and (3)Hub facilities at speeds from DS-3 to
   OC-48. The individual circuits within the (3)Hub facility are available
   from DS-1 through OC-48, and E-1 to STM-16 bandwidths.
   (www.level3.com/2234.html)
- XO offers transport with high capacity bandwidth from DS-1 (1.5
  Mbps) to DS-3 (45 Mbps) to OC-n.

Therefore, unless there is specific evidence that a carrier has refused to sell to other carriers specific capacities and dark fiber on a particular transport route, the Commission should find that a wholesale provider will sell DS1 and DS3 transport over its fiber facilities, as well as dark fiber.

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#### C. Conclusion Regarding Dedicated Transport Triggers

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## 3 Q. PLEASE SUMMARIZE THE CONCLUSIONS YOU DRAW FROM 4 YOUR TESTIMONY ON DEDICATED TRANSPORT?

5 A. Verizon has presented compelling evidence that 67 direct routes (or pairs of 6 Verizon wire centers) in the Tampa LATA one or both the FCC's two objective 7 triggers for dedicated transport. Because Verizon has taken a very conservative 8 approach in this proceeding by limiting its presentation to only Verizon wire 9 centers that it visually inspected to confirm the existence of fiber-based 10 collocation, there may be many more transport routes that meet the FCC's 11 triggers. Verizon takes no position on those routes at this time. Verizon may 12 seek relief on other routes based upon information disclosed through the 13 discovery process.

14

#### 15 III. VERIZON'S HIGH CAPACITY LOOPS TRIGGERS CASE

# 16 Q. IS VERIZON PRESENTING EVIDENCE OF THE HIGH CAPACITY 17 LOOPS DEPLOYED BY OTHER CARRIERS THAT MEET THE FCC'S 18 TWO TRIGGERS?

A. Not at this time. Verizon does not know the specific buildings to which other
carriers have deployed high capacity loops; this information is in the hands of
those other carriers. Verizon has requested copies of the responses filed by
CLECs and Alternative Access Vendors to the Staff's 2003 TRO Data Request
and has also submitted its own discovery to carriers. The discovery responses that
Verizon has received to date indicate that CLECs have deployed high capacity
loops in Florida. Verizon may submit supplemental evidence on buildings

| 1  |    | meeting the high capacity loop triggers once it has received the necessary |
|----|----|--|
| 2  |    | information from other carriers through the discovery process.             |
| 3  |    |  |
| 4  | Q. | DOES THIS CONCLUDE YOUR TESTIMONY?   |
| 5  | A. | Yes.   |
| 6  |    |  |
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1 I. **INTRODUCTION AND OVERVIEW** 2 **O**. PLEASE IDENTIFY THE MEMBERS OF THIS PANEL. 3 A. The members of this panel are Orville D. Fulp and John White. 4 5 **Q**. IS THIS THE SAME VERIZON PANEL THAT SUBMITTED TESTIMONY 6 **ON DECEMBER 22, 2003?** 7 A. Yes. 8 9 О. WHAT IS THE PURPOSE OF YOUR SUPPLEMENTAL TESTIMONY. 10 A. The purpose of the supplemental testimony is to show that, under the FCC's 11 objective triggers, Verizon is not required to provide unbundled access to dedicated 12 transport along certain routes and high capacity loops to certain customer locations. Pursuant to Commissioner Davidson's December 19, 2003 letter, this testimony 13 14 relies on additional evidence provided by competitive carriers in response to the 15 Commission Staff's discovery requests to fulfill its purpose. 16 17 II. DEDICATED TRANSPORT 18 PLEASE GIVE A BRIEF OVERVIEW OF THE EVIDENCE USED TO 0. 19 SHOW THAT CERTAIN DEDICATED TRANSPORT ROUTES IN 20 FLORIDA MEET ONE OR BOTH OF THE FCC'S TRIGGERS. 21 A. Verizon has combined the CLECs' discovery responses, where appropriate, with the 22 information used in its initial testimony, which was drawn largely from public and 23 internal sources. In a number of cases, Verizon has also adjusted the information it 24 used in its initial testimony to reflect the CLECs' responses. This combined and 25 adjusted evidence is presented in Exhibits F.1through F.4. Exhibit F.1 presents the

1 direct transport routes meeting the FCC's self-provisioning trigger for dark fiber; 2 Exhibit F.2 presents the direct transport routes meeting the self-provisioning trigger 3 for DS-3 capacity; Exhibit F.3 presents the direct transport routes meeting the wholesale trigger for DS1s and DS3s; and Exhibit F.4 presents the direct transport 4 5 routes meeting the wholesale trigger for dark fiber. The proprietary versions of 6 Exhibits F.1 through F.4 identify the competitive carriers with operational, fiber-based 7 collocation arrangements in the Verizon wire centers. Competitive carriers' names 8 are removed from the public versions of these exhibits.

9

## 10 Q. PLEASE DESCRIBE THE DIRECT TRANSPORT ROUTES MEETING THE 11 FCC'S TRIGGERS.

A. When the CLECs' discovery responses are combined with Verizon's information,
there are (1) 25 direct transport routes (or pairs of Verizon wire centers) meeting the
FCC's self-provisioning trigger for dark fiber (Exhibit F.1); (2) 25 direct routes
meeting the FCC's self-provisioning trigger for DS3-level capacity (Exhibit F.2); (3)
67 direct routes meeting the FCC's wholesale trigger for DS1 and DS3 capacities
(Exhibit F.3); and (4) 67 direct routes meeting the FCC's wholesale trigger for dark
fiber (Exhibit F.4).

19 20 21

When combined with Verizon's internal information, the CLEC responses to the Commission Staff's 2003 TRO discovery requests expand the number of dedicated transport routes meeting one or both of the FCC's triggers.

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# Q. DID ALL CLECS RESPOND FULLY AND APPROPRIATELY TO THE STAFF'S DISCOVERY REQUESTS CONCERNING DEDICATED TRANSPORT?

A. No. First, not every competitive carrier identified by Verizon as having
operational, fiber-based collocation arrangements at a Verizon wire center has
responded to the Staff's transport discovery requests as of the date of this filing.
Those carriers include KMC, Xspedius and Progress. Of the CLECs who did
respond to Staff's discovery, some have failed to provide their confidential
responses to Verizon.<sup>1</sup>

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12 Second, Verizon has identified numerous problems and inadequacies with the 13 responses it received from many of the competitive carriers. For example, a few 14 competitive carriers claim to be unable to respond to discovery requests that are essential to the application of the FCC's triggers, and still other carriers did not 15 16 respond fully and adequately to certain of the Staff's requests. Verizon will 17 continue its efforts to obtain complete, detailed information from all carriers in 18 Florida, including identification of additional direct routes. Verizon reserves the 19 right to combine any new data that it receives from these carriers through its efforts 20 with the information presented here and to submit further supplemental testimony 21 to the Commission.

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- 23

DECLMENT NUMBER EATE

<sup>&</sup>lt;sup>1</sup> Time Warner did not provide Verizon its confidential response to Staff's TRO discovery request until the afternoon of Jan. 8, 2004, too late for inclusion in this supplemental filing.

## Q. FOR THOSE COMPETITIVE CARRIERS THAT DID RESPOND TO THE STAFF'S DISCOVERY REQUESTS ON DEDICATED TRANSPORT, WHAT DO THE DATA SHOW?

A. Although not all competitive carriers have responded to the Commission's data
requests as of this filing date and many did not respond fully or adequately, the
responses that we did receive help to provide a more complete assessment of the
dedicated transport routes in Florida that meet one or both of the FCC's triggers.

8 The competitive carriers' discovery responses confirm a key assumption in Verizon's 9 initial triggers case: that competitive carriers build OCn-level transport facilities 10 capable of channelization to DS1 or DS3 capacity services. In fact, the overwhelming 11 majority of CLECs responding to the Commission's discovery requests acknowledged 12 that, where they deployed their own transport facilities, they deployed fiber optic 13 cable and then (unless the fiber remained dark) attached OCn optronics (e.g., OC48 14 multiplexers) and other electronic multiplexing equipment, to subdivide -- i.e., 15 channelize -- the OCn system into the transport levels, such as DS1s and DS3s, 16 required by their customers.

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#### 18 III. HIGH CAPACITY LOOPS

## 19 Q. WHAT SUPPLEMENTAL EVIDENCE DOES VERIZON HAVE FOR THE 20 ANALYSIS OF HIGH CAPACITY LOOP FACILITIES?

A. In its *Triennial Review Order* ("TRO"), the FCC established that a state commission must find that competing carriers are not impaired without access to Verizon's unbundled dark fiber, DS1, and DS3 loop facilities (or hi-cap loops) at specific customer locations if Verizon meets one of two objective "triggers." In its December 22, 2003 testimony, Verizon indicated that it was unable to identify customer locations meeting the hi-cap loop triggers because information on CLEC loop deployment was in the hands of the CLECs. Since that time, Verizon has reviewed responses to the Commission's hi-cap loop discovery questions, and can identify customer locations in Florida that satisfy the hi-cap loop triggers.

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#### 6 Q. PLEASE DESCRIBE THE FCC'S OBJECTIVE HI-CAP LOOP TRIGGERS.

- 7 A. In the Triennial Review Order, the FCC found that requesting carriers are impaired on 8 a nationwide basis without access to unbundled dark fiber, DS1, and DS3 hi-cap loop 9 facilities serving the enterprise market. Triennial Review Order ¶ 311-14, 320-27. 10 The FCC recognized, however, that competing carriers often self-provision hi-cap 11 facilities or obtain them on a wholesale basis from carriers other than the ILEC. Id. 12 Consequently, the FCC authorized state commissions to determine the specific 13 customer locations that meet one of two objective triggers that show CLECs are 14 already providing non-ILEC hi-cap loop facilities, either to themselves (selfprovisioning trigger) or to other carriers (wholesale trigger). If a state commission 15 16 finds that either trigger is met for a specific loop capacity at a specific customer 17 location, the state commission must make a finding of non-impairment, and the ILEC 18 will no longer be required to unbundle that loop capacity to that customer location. 19 Triennial Review Order ¶ 328-329; see also 47 C.F.R. §51.319(a)(4)-(6). In other 20 words, when a customer location meets one of the FCC's triggers, the state 21 commission conducting the customer location-specific review *must* find that the 22 FCC's national finding of impairment has been overcome for the relevant loop 23 capacity at that location.
- 24

25

The first of the FCC triggers looks at whether competing carriers have self-deployed

1 or self-provisioned dark fiber or DS3 capacity loop facilities. Under the self-2 provisioning trigger for dark fiber, the Commission must find no impairment if two or 3 more unaffiliated competing carriers have deployed to a particular customer location 4 their own dark fiber facilities. 47 C.F.R. § 51.319(a)(6)(i). Dark Fiber obtained under 5 a long-term indefeasible right of use is considered to be that carrier's own fiber for 6 purpose of applying the self-provisioning trigger. Id.; see also Triennial Review 7 Order ¶ 333 n. 981. Under the self-provisioning trigger for DS3 loop facilities, the 8 Department must find no impairment if two or more unaffiliated competing carriers 9 have (i) deployed to a particular customer location their own dark fiber facilities and 10 are serving customers via those facilities at that location, or (ii) deployed DS3 11 facilities by attaching its own optronics to activate dark fiber facilities obtained under 12 a long-term indefeasible right of use and is serving customers via those facilities at 13 that location. *Triennial Review Order* ¶ 332-334; 47 C.F.R. § 51.319(a)(5)(i)(A).

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16 The second FCC trigger looks at whether DS1 or DS3 loop facilities are available 17 from other carriers on a wholesale basis. Under this test, competing carriers are not 18 impaired without access to Verizon's DS1 or DS3 facilities if there are two or more 19 competing providers (including intermodal providers of service comparable in quality 20 to the ILEC) not affiliated with each other or the ILEC each of which (i) has deployed 21 its own DS1 or DS3 facilities; (ii) offers a DS1 or DS3 loop over its own facilities on 22 a widely available wholesale basis to other carriers desiring to serve customers at that 23 location; and (iii) has access to the entire customer location (including each individual 24 unit within that location). 47 C.F.R. § 51.319(a)(4)(ii), 47 C.F.R. § 51.319(a)(5)(i)(B). Dark fiber obtained on an unbundled, leased, or purchased basis 25

- 1 from another carrier counts as the buying carrier's own DS1 or DS3 loop facility if 2 that carrier attaches its own electronics and offers the activated fiber at wholesale. *Id.*
- 3

#### Q. WHAT IS A CUSTOMER LOCATION?

A. The FCC distinguishes between "customer locations" and individual units within that
location. See 47 C.F.R. §§ 51.319(a)(4)(ii), (5)(i)(B). This distinction indicates that a
customer location is a building, not an individual unit or suite in a multi-unit building.
Based on their discovery responses, the CLECs in Florida agree. The Commission's
discovery specifically asked the CLECs to identify the "customer locations" to which
they have deployed loop facilities, and in response, the CLECs provided the addresses
of specific buildings.

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## Q. THE FCC'S TWO TRIGGERS APPLY TO DIFFERENT "CAPACITIES" OF LOOPS. WHAT DETERMINES THE CAPACITY AT WHICH FIBER LOOP FACILITIES OPERATE?

The capacity of a fiber optic loop is almost exclusively based on the equipment that a 16 Α. 17 carrier attaches to activate or "light" the fiber. See Triennial Review Order ¶311. As the FCC found in its Triennial Review Order, carriers that self-deploy fiber 18 19 predominantly do so at the OCn level. Id. ¶ 298. Indeed, the underlying capacity of a strand of dark fiber is comparable in total capacity to an OCn loop, which can operate 20 at a wide range of capacities. See id. ¶ 311. Many CLECs that serve customers over 21 22 their own DS1 loops have previously deployed an OCn level facility that they are 23 using to serve other customers at lower loop capacity levels. Id. n. 859. Fiber optic cable is also "channelized" (*i.e.*, larger capacity facilities are subdivided into smaller 24 capacity facilities) by attaching the appropriate electronics at both ends of the fiber 25

cable to provide these various capacities. For example, lower capacity DS1 and DS3
 facilities are channelized simultaneously within the larger capacity OC12 or OC48
 facility. The electronic equipment used to activate these various levels of capacity is
 widely available.

5

## Q. WHAT DOES IT MEAN TO OPERATE A FIBER OPTIC LOOP FACILITY 7 AT OCN, DS1, OR DS3 LEVELS OF CAPACITY?

A. As with transport, OCn loops refer to the technical distinction (*i.e.*, Optical Carrier or
"OC") and the capacity (*i.e.*, "n") of fiber optic cable. For example, an optical carrierlevel 3 — or OC3, capacity circuit contains the equivalent of up to three DS3 circuits
(an OC3 is approximately 155 Mbps, while three DS3s are 135 Mbps), but terminates
on a different type of electronic interface.

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DS1 and DS3 loops likewise refer to the technical distinction (*i.e.*, Digital Signal or "DS") and capacity. The elemental speed is a DS0, which is a voice grade line with a bandwidth of 64 Kbps. A DS1 capacity circuit contains the equivalent of 24 voicegrade or DS0 channels. A DS3 capacity circuit contains the equivalent of 28 DS1 channels or 672 DS0 channels.

19

## 20 Q. THE FCC'S LOOP TRIGGERS ARE SEPARATELY APPLIED TO DARK 21 FIBER FACILITIES. WHAT IS DARK FIBER?

A. Dark fiber is the unused fiber within an existing fiber optic cable that has not yet been
 activated through optronics to render it capable of carrying communications services.
 *Triennial Review Order* ¶ 311. Dark fiber has virtually unlimited capacity, and it is
 the electronics that define the capacity. *Id.* n. 909.

#### 1 **Q**. **DID ALL OF THE CLECS PROVIDE THE INFORMATION REQUESTED** IN THE COMMISSION'S HI-CAP LOOP DISCOVERY REQUESTS? 2 3 Α. No, not all the CLECs served with the Commission Staff's 2003 TRO data request 4 provided the loop information requested. Furthermore, many of the CLECs who did 5 respond provided incomplete or inadequate responses. Confidential copies of the 6 CLEC responses that Verizon was able to obtain as of January 7, 2004 are included as 7 Exhibit G. 8 9 Q. PLEASE DESCRIBE VERIZON'S EVIDENCE OF **CUSTOMER** 10 LOCATIONS IN FLORIDA THAT MEET THE FCC'S HI-CAP LOOP 11 TRIGGERS. 12 A. Verizon presents evidence that 12 customer locations meet one or both of the FCC's 13 triggers. There are 4 customer locations that meet the DS1 wholesale trigger. With 14 respect to DS3 loops, 5 customer location meets the self-provisioning trigger, and 4 15 meet the wholesale trigger. Finally, there are 12 customer locations meeting the dark 16 fiber self-provisioning trigger. Exhibit F.5 identifies each customer location meeting 17 the triggers. The proprietary version of this attachment identifies the CLECs with 18 loop facilities at each customer location. CLEC names are removed from the public

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version of Exhibit F.5.

## 21 Q. DOES VERIZON'S TRIGGER ANALYSIS COVER THE ENTIRE STATE 22 OF FLORIDA?

- A. No. Verizon limited its analysis only to its service territory, and excluded those cities
  in which it does not serve any customers.
- 25

**O**.

### CAN ANY FIBER LOOP FACILITY DEPLOYED BY A CLEC BE USED TO PROVIDE A DS1 OR DS3 LOOP?

A. Yes. In identifying the customer locations meeting the FCC's triggers, Verizon made the reasonable assumption that when competing carriers deploy fiber and attach OCn electronics (*e.g.*, OC48 multiplexers), the carriers then subdivide (*i.e.*, channelize) the OCn system into the lower transport levels required by their customers, including DS3s and DS1s. This is consistent with the FCC's finding (discussed above)

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9 While fiber loop facilities are capable of operating at various levels of capacity, the 10 capacity of the fiber is almost entirely a function of the electronics that a carrier 11 attaches, not something inherent in the fiber itself. Once the fiber is deployed, it is 12 operated at a DS1, DS3, OC48 or higher level — or at all of these levels 13 simultaneously — simply by changing the electronics. The electronics used to 14 channelize the OCn system to DS1 and DS3 transport levels are widely available.

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16 Verizon's assumption that competing carriers who deploy fiber optics generally build 17 OCn level transport facilities, capable of channelization to DS1 or DS3, is consistent with standard industry practice. Few if any carriers deploy fiber loop facilities to 18 accommodate only a DS1 or only a DS3. To the contrary, as the FCC found in the 19 20 Triennial Review Order, carriers deploying fiber predominantly do so at the OCn 21 level. Triennial Review Order ¶ 289. These OCn facilities are then subdivided or 22 channelized to a DS1 or DS3 level because these are the levels at which service is 23 typically requested by end user customers that use hi-cap facilities.

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The assumptions underlying Verizon's self-deployment trigger case are entirely

consistent with the way fiber loop facilities commonly are constructed and operated. The Commission therefore should find that CLECs who have deployed fiber optic loop facilities have the ability to provision DS1 and DS3 circuits — unless a carrier shows, for a particular customer location, that it cannot deploy DS1 or DS3 circuits at that location.

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#### Q. DO THESE FIBER LOOP FACILITIES ALSO CONTAIN DARK FIBER?

A. Absent evidence to the contrary, it reasonably can be assumed that all self-provisioned fiber loop facilities have dark fiber. Since dark fiber is simply fiber optic cable "that has not been activated through connections to optronics that light it, and thereby render it capable of carrying communications," (*Triennial Review Order* ¶ 311), all fiber loop facilities, regardless of the capacities at which they now operate, once consisted entirely of dark fiber. Put differently, evidence of "lit" fiber is also evidence that a carrier has self-provisioned dark fiber.

15

Additionally, as a matter of standard industry network engineering design and sound economics, the vast majority of self-provisioned fiber loop facilities will have spare dark fibers. As the FCC recognized, dark fiber exits in a carrier's network as unused fiber available because that carrier has deployed fiber in the first instance for the express purpose of lighting certain strands of it to serve a particular customer location. *Triennial Review Order* ¶ 312. The FCC explained,

When a fiber build decision is made, carriers take advantage of the fact that they are already incurring substantial fixed costs to obtain the rights-of-way, dig up streets, and trench cable, to lay more fiber than they immediately need. Once

| 1  |    | the significant fiber construction cost is incurred, the record                             |
|----|----|---|
| 2  |    | reflects that it is relatively easy and inexpensive to install                              |
| 3  |    | fiber strands in excess of current demand at that time to                                   |
| 4  |    | maximize the use of conduit and avoid the need to incur                                     |
| 5  |    | duplicate costs to retrench the same location in the future if                              |
| 6  |    | demand for additional fiber facilities occurs.  |
| 7  |    | Id.   |
| 8  |    |   |
| 9  |    | Thus, fiber facilities are always installed with extra fiber to meet projected demand       |
| 10 |    | growth. Furthermore, fiber cables are commonly manufactured and deployed in                 |
| 11 |    | increments of 12 fiber strands (i.e., 12, 24, 48, etc., fibers per cable), which means that |
| 12 |    | there are likely to be additional unused fibers available to fill up the standard cable     |
| 13 |    | size the carrier deployed. Verizon therefore assumed (and the Commission should             |
| 14 |    | find) that CLECs who have deployed fiber optic loop facilities also have dark fiber         |
| 15 |    | deployed at that location- unless a carrier shows, for a particular customer location,      |
| 16 |    | that it does not have any dark fiber.   |
| 17 |    |   |
| 18 | Q. | HOW DID VERIZON IDENTIFY CARRIERS OFFERING LOOP   |
| 19 |    | FACILITIES ON A WHOLESALE BASIS, AND THE CAPACITIES AT                                      |
| 20 |    | WHICH THOSE FACILITIES ARE OFFERED?   |
| 21 | А. | Verizon primarily relied on carriers to self-identify themselves as wholesale providers     |
| 22 |    | in response to the Commission Staff's TRO loop discovery requests. ** ** and                |
| 23 |    | ** ** identified themselves as wholesale providers.   |
| 24 |    | Verizon also found evidence of CLEC wholesale providers from public sources. As             |
| 25 |    | with its transport evidence, Verizon identified carriers that hold themselves out as        |
|    |    |   |

| 1  | wholesale providers on their websites. For example:                                    |
|----|--|
| 2  | • FPL Fibernet provides "wholesale fiber optic service with bandwidth                  |
| 3  | capacity from DS-3 to OC-192 for long distance companies, CLECs,                       |
| 4  | BLECs, ISPs, ASPs and other communications related businesses                          |
| 5  | within the major metropolitan areas of Florida." <sup>2</sup>                          |
| 6  | • MCI offers DS-1 and DS-3's at wholesale. <sup>3</sup>                                |
| 7  | • Progress provides "wholesale fiber bandwidth to long distance,                       |
| 8  | international and wireless carriers, Internet service providers (ISPs),                |
| 9  | competitive local exchange carriers (CLECs), and other strategic                       |
| 10 | customers through its extensive fiber-optic network in the Southeast"4                 |
| 11 | • XO offers "Wholesale Dial Up," which allows CLECs "rapidly expand                    |
| 12 | [their] nationwide dial capacity and increase [their] coverage area,                   |
| 13 | without building or managing [their] own <i>nationwide</i> dial network." <sup>5</sup> |
| 14 | If a carrier publicly holds itself out as a wholesale provider of loop facilities or   |
| 15 | telecommunications services generally, Verizon identified that carrier as a wholesale  |
| 16 | provider.  |
| 17 |  |
| 18 | Finally, Verizon assumes that a carrier that has deployed fiber loop facilities and is |
| 19 | willing to provide those facilities to other carriers is providing (or is willing to   |
| 20 | provide) various levels of capacity at wholesale, including dark fiber, DS1, and DS3.  |

<sup>2</sup> <u>www.fplfibernet.com</u> (See Joint Direct Testimony of Fulp/White, Exhibit E.2)
 www.mci.com/telecom\_wholesale/index.jsp ,

http://global.mci.com/publications/service\_guide/products/, and http://global.mci.com/publications/service\_guide/products/products\_currently\_available/ (included as Exhibit F.8).

www.progresstelecom.com/5\_389.htm (Attached as Exhibit F.6)

<sup>5</sup> http://www.xo.com/products/carrier/wholesaledial/index.html (emphasis added) (Attached as Exhibit F.7).

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Therefore, unless there is specific evidence that a carrier refuses to sell other carriers specific capacities and dark fiber on a particular transport route, the Commission should find that a wholesale provider will sell DS1 and DS3 transport over its fiber facilities, as well as dark fiber.

Based on the discovery responses and carrier websites, Verizon has identified \*\* 6 \*\* as counting towards the competitive wholesale trigger in at least one 7 \*\* and \*\* 8 building. If these carriers wish to attempt to show that a specific location is not 9 available at wholesale, the burden is now properly put on them to make such a 10 demonstration. Absent such particularized, location-specific evidence, however, the 11 Commission should rely on Verizon's evidence of a carrier's general willingness to 12 offer its loop facilities on a wholesale basis and treat all such carriers' loop facilities as 13 available for leasing at wholesale.

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## 15 Q. HOW DID VERIZON IDENTIFY WHETHER CLECS HAVE ACCESS TO 16 AN ENTIRE CUSTOMER LOCATION?

17 The Commission's hi-cap loop discovery requests include a column entitled A. "Accessible Y/N". Verizon assumes that this column is asking CLECs whether they 18 19 have access to the entire customer location. Moreover, in its responses to the Commission's discovery requests, \*\* \*\* included a column entitled "Can Serve 20 All At Location." Where CLECs did not provide such information, Verizon 21 assumed that they do have access to the entire location. It is reasonable to assume that 22 23 a carrier with fiber optic facilities into a large commercial building has access to the 24 entire building.

| 1  | Q. | HOW DID VERIZON IDENTIFY WHETHER CLECS SERVE END-USER                             |
|----|----|---|
| 2  |    | CUSTOMERS OVER DS3 FACILITIES THEY HAVE DEPLOYED?                                 |
| 3  | A. | The Commission's hi-cap loop discovery specifically asked the CLECs to indicate   |
| 4  |    | whether they could "serve all at location." Verizon primarily relied upon CLEC    |
| 5  |    | responses to this question.   |
| 6  |    |   |
| 7  | Q. | DID VERIZON EXCLUDE ANY OF THE CUSTOMER LOCATIONS                                 |
| 8  |    | IDENTIFIED BY CLECS IN RESPONSE TO DISCOVERY FROM ITS                             |
| 9  |    | TRIGGER ANALYSIS?   |
| 10 | A. | Verizon also assumed that CLECs are not serving customers in buildings that house |
| 11 |    | Verizon central offices and excluded them from its trigger analysis.              |
| 12 |    |   |
| 13 | Q. | DOES THIS CONCLUDE YOUR SUPPLEMENTAL DIRECT                                       |
| 14 |    | TESTIMONY?  |
| 15 |    |   |
| 16 | А. | Yes.  |
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|----|---|
| 1  | STATE OF FLORIDA )  |
| 2  | : CERTIFICATE OF REPORTER<br>COUNTY OF LEON )   |
| 3  |   |
| 4  | I, LINDA BOLES, RPR, Official Commission<br>Reporter, do hereby certify that the foregoing proceeding was                 |
| 5  | heard at the time and place herein stated.  |
| 6  | IT IS FURTHER CERTIFIED that I stenographically reported the said proceedings; that the same has been                     |
| 7  | transcribed under my direct supervision; and that this<br>transcript constitutes a true transcription of my notes of said |
| 8  | proceedings.  |
| 9  | I FURTHER CERTIFY that I am not a relative, employee,<br>attorney or counsel of any of the parties, nor am I a relative   |
| 10 | or employee of any of the parties' attorneys or counsel<br>connected with the action, nor am I financially interested in  |
| 11 | the action.   |
| 12 | DATED THIS 4TH DAY OF MARCH, 2004.  |
| 13 |   |
| 14 | LINDA BOLES, RPR  |
| 15 | FPSC Official Commission Reporter<br>(850) 413-6734   |
| 16 | (000) 410-0/24  |
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|    | FLORIDA PUBLIC SERVICE COMMISSION   |