Andrew D Shore Senior Regulatory Counsel

BellSouth Telecommunications, Inc 150 South Monroe Street Room 400 Tallahassee, Florida 32301 (404) 335-0743

January 28, 2002

Mrs. Blanca S. Bayó Director, Division of the Commission Clerk and Administrative Services Florida Public Service Commission 2540 Shumard Oak Boulevard Tallahassee, Florida 32399-0850

Re: Docket No. 990649-TP (UNE Docket)

Dear Mrs. Bayó:

Enclosed is an original and fifteen copies of BellSouth Telecommunications, Inc.'s revised Direct Testimony of Daonne D. Caldwell, and an original and fifteen copies of the revised Surrebuttal Testimony of Daonne D. Caldwell, which we ask that you file in the captioned docket. Please note, that in order to assist the Commission and the parties in identifying the changes to the testimony, we have also attached a redlined version of the testimony.

A copy of this letter is enclosed. Please mark it to indicate that the original was filed and return the copy to me. Copies have been served to the parties shown on the attached Certificate of Service.

Sincerely, ndrew D. Shore Andrew D. Shore

Cc: Parties of Record Marshall M. Criser III R. Douglas Lackey Nancy B. White

00990-02 three 00993-02

CERTIFICATE OF SERVICE Docket No. 990649A-TP

I HEREBY CERTIFY that a true and correct copy of the foregoing was served via

Email and Federal Express this 28th day of January, 2002 to the following:

Wayne D. Knight Staff Counsel Fiorida Public Service Commission Division of Legal Services 2540 Shumard Oak Boulevard Tallahassee, FL 32399-0850 Tel. No. (850) 413-6216 Fax. No. (850) 413-6217 wknight@psc.state.fl.us

Joseph A. McGlothlin (+) Vicki Gordon Kaufman (+) McWhirter, Reeves, McGlothlin, Davidson, Decker, Kaufman, Arnold, & Steen, P.A. 117 South Gadsden Street Tallahassee, FL 32301 Tel. No. (850) 222-2525 Fax. No. (850) 222-2525 Fax. No. (850) 222-5606 Attys. For FCCA Atty. for BlueStar jmcglothlin@mac-law.com

Karen Jusevitch AT&T Communications 101 North Monroe Street Suite 700 Tallahassee, FL 32301 Tel. No. (850) 425-6313 Fax. No. (850) 425-6361 kjusevit@att.com Jim Lamoureux (+) AT&T Communications 1200 Peachtree Street, N.E. Room 8068 Atlanta, Georgia 30309 Tel. No. (404) 810-4196 Fax. No. (404) 877-7648 jlamoureux@att.com

Richard D. Melson (+) Gabriel E. Nieto Hopping Green Sams & Smith, P.A. Post Office 6526 123 South Calhoun Street Tallahassee, FL 32314 Tel. No. (850) 222-7500 Fax. No. (850) 224-8551 Atty. For MCI rmelson@hgss.com

Dulaney L. O'Roark MCI Telecommunications Corporation 6 Concourse Parkway Suite 600 Atlanta, GA 30328 Tel. No. (770) 284-5498 Fax. No. (770) 284-5488 De.ORoark@mci.com Floyd Self Messer, Caparello & Self Post Office Drawer 1876 215 South Monroe Street, Suite 701 Tallahassee, FL 32302-1876 Tel. No. (850) 222-0720 Fax. No. (850) 224-4359 Atty. for AT&T fself@lawfla.com thatch@lawfla.com

Terry Monroe Vice President, State Affairs Competitive Telecomm. Assoc. 1900 M Street, N.W. Suite 800 Washington, D.C. 20036 Tel. No. (202) 296-6650 Fax. No. (202) 296-7585 tmonroe@comptel.org

Kimberly Caswell (+) GTE Florida Incorporated One Tampa City Center 201 North Franklin Street Tampa, Florida 33602 Tel. No. (813) 483-2617 Fax. No. (813) 204-8870 kimberly.caswell@verizon.com

Karen M. Camechis (+) Pennington, Moore, Wilkinson & Dunbar, P.A. 215 South Monroe Street, 2nd Flr. Tallahassee, Florida 32301 Tel. No. (850) 222-3533 Fax. No. (850) 222-2126 Represents Time Warner Karen@penningtonlawfirm.com Carolyn Marek (+) Vice President of Regulatory Affairs Southeast Region Time Warner Communications 233 Bramerton Court Franklin, Tennessee 37069 Tel. No. (615) 376-6404 Fax. No. (615) 376-6405 Carolyn.Marek@twtelecom.com

Mark E. Buechele, Esquire Supra Telecom 1311 Executive Center Drive Koger Center - Ellis Building Suite 200 Tallahassee, FL 32301-5027 Tel. No. (850) 402-0510 Fax. No. (850) 402-0522 <u>mbuechele@stis.com</u> <u>bchaiken@stis.com</u>

Donna Canzano McNulty, Esq. (+) MCI WorldCom, Inc. 325 John Knox Road The Atrium Bldg., Suite 105 Tallahassee, FL 32303 Tel. No. (850) 422-1254 Fax. No. (850) 422-2586 donna.mcnulty@wcom.com

Michael A. Gross (+) VP Reg. Affairs & Reg. Counsel Florida Cable Telecomm. Assoc. 246 East 6th Avenue Tallahassee, FL 32303 Tel. No. (850) 681-1990 Fax. No. (850) 681-9676 mgross@fcta.com Florida Public Telecomm. Assoc. Angela Green, General Counsel 2292 Wednesday Street, #1 Tallahassee, FL 32308 Tel. No. (850) 201-2525 Fax. No. (850) 222-1355 abgreen@coraltelecom.com

Intermedia Communications, Inc. Scott Sapperstein (+) Sr. Policy Counsel One Intermedia Way MCFLT-HQ3 Tampa, FL 33647 Tel. No. (813) 829-4093 Fax. No. (813) 829-4923 SASapperstein@intermedia.com

Charles J. Rehwinkel (+) 1313 Blair Stone Road Tallahassee, FL 32301 Tel. No. (850) 847-0244 Fax. No. (850) 878-0777 Counsel for Sprint charles.j.rehwinkel@mail.sprint.com

John P. Fons (+) Ausley & McMullen 227 South Calhoun Street Tallahassee, FL 32301 Tel. No. (850) 224-9115 Fax. No. (850) 222-7560 Counsel for Sprint jfons@ausley.com

Brian Sulmonetti MCI WorldCom, Inc. 6 Concourse Parkway Suite 3200 Atlanta, GA 30328 Tel. No. (770) 284-5500 Brian.Sulmonetti@wcom.com

Catherine F. Boone, Esq. (+) Regional Counsel Covad Communications Company 10 Glenlake Parkway Suite 650 Atlanta, GA 30328-3495 Tel. No. (678) 579-8388 Fax. No. (678) 320-9433 cboone@covad.com

Charles J. Beck Deputy Public Counsel Office of the Public Counsel 111 West Madison Street Room 812 Tallahassee, FL 32399-1400 Tel. No. (850) 488-9330 Fax. No. (850) 488-4491 beck.charles@leg.state.fl.us

Eric J. Branfman (+) Swidler Berlin Shereff Friedman, LLP 3000 K Street, N.W., Suite 300 Washington, D.C. 20007-5116 Tel. No. (202) 424-7500 Fax. No. (202) 424-7645 Represents Florida Digital Network, Inc. ejbranfman@swidlaw.com

Matthew Feil (+) Florida Digital Network, Inc. 390 North Orange Avenue Suite 2000 Orlando, FL 32801 Tel. No. (407) 835-0460 mfeil@floridadigital.net

John McLaughlin KMC Telecom. Inc. Mr. John D. McLaughlin, Jr. 1755 North Brown Road Lawrenceville, GA 30043 Tel. No. (678) 985-6261 Fax. No. (678) 985-6213 jmclau@kmctelecom.com

Bettye Willis (+) ALLTEL Communications Services, Inc. One Allied Drive Little Rock, AR 72203-2177 bettye.j.willis@alltel.com

J. Jeffry Wahlen (+) Ausley & McMullen 227 South Calhoun Street Tallahassee, FL 32301 Tel. No. (850) 425-5471 Fax. No. (850) 222-7560 Atty. for ALLTEL jwahlen@ausley.com

Stephen P. Bowen Blumenfeld & Cohen 4 Embarcadero Center Suite 1170 San Fransisco, CA 94111 Tel. No. (415) 394-7500 Fax. No. (415) 394-7505 stevebowen@earthlink.net

Charles J. Pellegrini Katz, Kutter, Haigler, Alderman, Bryant & Yon, P.A. 106 East College Avenue Suite 1200 Tallahassee, FL 32301 Represents Intermedia Tel. No. (850) 577-6755 Fax No. (850) 222-0103 cjpellegrini@katzlaw.com

George S. Ford (+) Chief Economist Z-Tel Communications, Inc. 601 South Harbour Island Blvd. Tampa, FL 33602 Tel. No. (813) 233-4630 Fax. No. (813) 233-4620 gford@z-tel.com

Jonathan E. Canis Michael B. Hazzard Kelley Drye & Warren, LLP 1200 19th Street, NW, Fifth Floor Washington, DC 20036 Tel. No. (202) 955-9600 Fax. No. (202) 955-9792 jcanis@kelleydrye.com mhazzard@kelleydrye.com Counsel for Z-Tel Communications, Inc.

Rodney L. Joyce Shook, Hardy & Bacon, LLP 600 14th Street, N.W., Suite 800 Washington, D.C. 20005-2004 Tel. No. (202) 639-5602 Fax. No. (202) 783-4211 rjoyce@shb.com Represents Network Access Solutions

Russell M. Blau Thomas R. Lotterman (+) Michael Sloan (+) Robert Ridings (+) Swidler Berlin Shereff Friedman 3000 K Street, N.W. Suite 300 Washington, D.C. 20007-5116 Tel. No. (202) 424-7755 Fax. No. (202) 424-7643 Attys. for Broadslate Networks, Inc. Attys. for Cleartel Comm. MCSloan@swidlaw.com mblau@swidlaw.com riridings@swidlaw.com trlotterman@swidlaw.com

John Spilman Director Regulatory Affairs and Industry Relations Broadslate Networks, Inc. 675 Peter Jefferson Parkway Suite 310 Charlottesville, VA 22911 Tel. No. (804) 220-7606 Fax. No. (804) 220-7701 john.spilman@broadslate.net

Andrew D. Shore (No

(+) Signed Protective Agreement

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1	BELLSOUTH TELECOMMUNICATIONS, INC.
2	DIRECT TESTIMONY OF D. DAONNE CALDWELL
3	BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION
4	DOCKET NO. 990649A-TP
5	(120-DAY ITEMS)
6	NOVEMBER 8, 2001
7	AMENDED JANUARY 28, 2002
8	
9	Q. PLEASE STATE YOUR NAME, ADDRESS AND OCCUPATION.
10	
11	A. My name is D. Daonne Caldwell. My business address is 675 W. Peachtree St.,
12	N.E., Atlanta, Georgia. I am a Director in the Finance Department of BellSouth
13	Telecommunications, Inc. (hereinafter referred to as "BellSouth"). My area of
14	responsibility relates to the development of economic costs.
15	
16	Q. ARE YOU THE SAME D. DAONNE CALDWELL THAT PREVIOUSLY
17	FILED TESTIMONY IN THIS DOCKET?
18	
19	A. Yes.
20	
21	Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?
22	
23	A. In its May 25, 2001 Order No. PSC-01-1181-FOF-TP ("Order") in this docket, the
24	Florida Public Service Commission ("Commission") outlined a number of issues
25	that required responses by BellSouth within 120 days. The Order listed the
	-1-
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DOCUMENT NUMBER-DATE UO992 JAN 28 S FPSC-CUMINISSICN CLERK

1		following as 120-day items: (1) Hybrid Copper/Fiber xDSL-capable loop, (2)
2		xDSL nonrecurring costs that exclude the Design Layout Record ("DLR"), test
3		point, and order coordination, (3) network security and inventory issues, (4)
4		network interface device ("NID") costs, (5) explicit modeling of loops, and (6)
5		inflation. On September 24, 2001, BellSouth filed cost studies in this docket to
6		address these "120-day" issues. On October 2, 2001, however, the Commission
7		reversed its ruling on inflation in Order No. PSC-01-2051-FOF-TP; therefore,
8		revised cost studies were filed on October 8 th to include the impact of inflation.
9		Further, on October 23, 2001, the Commission identified a number of issues
10		precipitating from BellSouth's filing, with the objective of resolving them during
11		this phase of the docket. My testimony responds to those issues associated with
12		cost development. In doing so, I will present and support the revised cost studies
13		filed on October 8, 2001 and subsequently revised on January 28, 2002.
14		
14 15		Issue 1(a): Are the loop cost studies submitted in BellSouth's 120-day filing
		Issue 1(a): Are the loop cost studies submitted in BellSouth's 120-day filing compliant with Order No. PSC-01-1181-FOF-TP?
15		
15 16	Q.	
15 16 17	Q.	compliant with Order No. PSC-01-1181-FOF-TP?
15 16 17 18	Q.	compliant with Order No. PSC-01-1181-FOF-TP? PLEASE EXPLAIN WHY THE LOOP COST STUDIES BELLSOUTH
15 16 17 18 19	Q.	compliant with Order No. PSC-01-1181-FOF-TP? PLEASE EXPLAIN WHY THE LOOP COST STUDIES BELLSOUTH FILED ON OCTOBER 8, 2001, AND SUBSEQUENTLY REVISED ON
15 16 17 18 19 20	Q.	compliant with Order No. PSC-01-1181-FOF-TP? PLEASE EXPLAIN WHY THE LOOP COST STUDIES BELLSOUTH FILED ON OCTOBER 8, 2001, AND SUBSEQUENTLY REVISED ON JANUARY 28, 2002, 2001COMPLY WITH ORDER NO. PSC-01-1181-FOF-
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15 16 17 18 19 20 21 21 22		<i>compliant with Order No. PSC-01-1181-FOF-TP?</i> PLEASE EXPLAIN WHY THE LOOP COST STUDIES BELLSOUTH FILED ON OCTOBER 8, 2001, AND SUBSEQUENTLY REVISED ON JANUARY 28, 2002, 2001COMPLY WITH ORDER NO. PSC-01-1181-FOF- TP.
15 16 17 18 19 20 21 22 23		compliant with Order No. PSC-01-1181-FOF-TP? PLEASE EXPLAIN WHY THE LOOP COST STUDIES BELLSOUTH FILED ON OCTOBER 8, 2001, AND SUBSEQUENTLY REVISED ON JANUARY 28, 2002, 2001COMPLY WITH ORDER NO. PSC-01-1181-FOF- TP. The Commission outlined a number of modifications that impact both the

1	substantial resources, but also	to alter the manner	in which costs were developed.
2	The simpler Commission-orde	ered modifications r	eflected in BellSouth's October
3	8 th and January 28, 2002 cost	studies include:	
4			
5	Cost of Capital - The Commis	ssion set the forward	d-looking cost of capital for
6	BellSouth at 10.24% (60/40 ed	quity/debt ratio, deb	t = 7.3%, equity = 12.2%).
7			
8	Depreciation - The Commissio	on adjusted the ecor	omic lives for metallic cable
9	accounts and digital switching	equipment. The C	ommission accepted BellSouth's
10	salvage values. The chart belo	w compares BellSo	outh's initially proposed
11	economic lives and the ones of	rdered by the Comn	nission. The Commission-
12	ordered lives are reflected in the	he studies filed on (October 8, 2001 and January 28,
13	<u>2002</u> .		
14			
15			
16		BellSouth	Commission –Ordered
17	Digital Switching	10	13
18	Aerial Metallic Cable	15	18
19	Underground Metallic Cable	14	23
20	Buried Metallic Cable	15	18
21	Submarine Metallic Cable	15	18
22			
23	BellSouth asked for reconside	ration on two other	depreciation modifications
24	originally reflected in the Con	mission-ordered ra	tes; i.e., modifications to analog
25	switching equipment and to su	bmarine fiber cable	. In its October 2, 2001 ruling

1	(Order PSC-01-2051-FOF-TP), the Commission agreed that the analog switching
2	equipment economic life should be retained as BellSouth's input. In that ruling,
3	however, the Commission rejected the other request and stated that the Order did
4	alter the submarine fiber cable life and that it should be set at 20 years. The cost
5	study filed on October 8, 2001 reflects the analog switching equipment life of 1.6
6	years and the submarine fiber cable life of 20 years.
7	
8	Taxes - The Commission ordered Florida-specific tax rates as follows: a combined
9	state and federal income tax rate of 38.57% and an ad valorem tax rate of .9515%.
9 10	state and federal income tax rate of 38.57% and an ad valorem tax rate of .9515%. Also, the "gross receipts tax" factor was set at .15%. The cost study reflects these
10	Also, the "gross receipts tax" factor was set at .15%. The cost study reflects these
10 11	Also, the "gross receipts tax" factor was set at .15%. The cost study reflects these

- 15 appropriately reflected these modifications in the Shared and Common
- 16 Application, which develops the shared and common cost factors.
- 17 Additionally, the deaveraging of loops was based upon the methodology adopted
- 18 by the Commission and the details provided in Appendix B of the Order, which
- 19 listed the wire centers by zone.
- 20

21 Q. YOU MENTIONED THAT THERE WERE ADDITIONAL COMMISSION-

- 22 ORDERED MODIFICATIONS THAT WERE MORE DIFFICULT TO
- 23 MAKE. WHAT WERE THOSE MODIFICATIONS?
- 24

25 A. The first modification that was more difficult to incorporate into the studies was the

nonrecurring work time estimates. The Order detailed the extensive examination
 of three representative UNEs; the ADSL loop, CCS7 Signaling and Interoffice
 Transport - DS0. Based on the Commission's analysis of these three UNEs,
 adjustments to the work time estimates were recommended and outlined as listed
 below (Order, page 364):

6

7		
8	Category	Approved Adjustments for BellSouth's
9		Installation and Disconnect Work Groups
10		and Work Times
11	CRSG Incremental Time	Eliminate work times
10		······································
12	CRSG	Reduce work times by 55%
13		
14	LCSC	Reduce work times by 75%
15	SAC	Reduce work times by 50%
16		
17	AFIG	Reduce work times by 50%
18	CPG	Deduce work times by EOS
10	CPG	Reduce work times by 50%
19	UNEC Provisioning Variables	Bliminate work times
20		
21	UNEC	Reduce work times by 45%
22	WMC	Reduce work times by 65%
-23		
24	CO IEM	Reduce work time by 20%
25	SSI&M	Reduce work times by 35%

1	Category	Approved Adjustments for BellSouth's
2		Installation and Disconnect Work Groups
З		and Work Times
4	Travel	No Adjustment
5 6	All other work groups	Reduce work times by 45%

7 These are the modifications BellSouth used to develop the nonrecurring costs

8 contained in the October 8th-cost studies. In order to implement these reductions,

9 BellSouth went into each input file and recalculated the originally proposed time

10 estimates. In fact, in order to allow review of BellSouth's calculations, the input

files show the Commission's modifications in red. The Commission also ordered

12 a 50/50 sharing of the cost of access to sub-loop elements, which is also reflected

13 in both BellSouth's input files and cost results.

14

15 The other Commission-ordered modification that was difficult to implement was

16 one specifically listed as a "120-day" item – the explicit modeling of "all cable and

17 associated supporting structure engineering and installation placements." (Order,

18 Page 242) BellSouth has provided, as ordered by the Commission, a "bottoms-up"

19 study of outside plant cable and structures using the BellSouth

20 Telecommunications Loop Model ("BSTLM^C"). Whenever possible, either actual

21 data or subject matter experts' estimates have been used in the BSTLM. Execution

- 22 of the "bottoms-up" directive required activities such as: code modifications to the
- 23

25

^{24 ° 1999} INDETEC International and BellSouth Corporation All Rights Reserved (BSTLM)

1	BSTLM, which BellSouth witness Mr. Stegeman addresses, review of outside
2	contractor contracts, weighting of contractor prices by relative use, development of
3	structure sharing percentages, estimation of BellSouth placing and splicing hours,
4	and determination of probabilities by terrain and density.
5	
6	
7	Q. ARE THERE OTHER MODIFICATIONS THAT HAVE BEEN MADE TO
8	THE NONRECURRING COSTS IN ADDITION TO THOSE CONTAINED
9	IN THE ORDER?
10	
11	A. Yes. As noted in the cost study there were further changes to nonrecurring cost
12	development that need to be considered. These modifications reduce the
13	provisioning time and thus, should reduce the nonrecurring cost. These additional
14	input changes are detailed on pages 25-30 of the cost study. For example, the
15	amount of time a loop is not found in LFACS was lowered from 58% to 20% and
16	Work Management Center ("WMC") time was set at 2 minutes (down from 15).
17	
18	Q. PLEASE PROVIDE AN OVERVIEW OF THE INPUTS USED IN
19	BELLSOUTH'S "BOTTOMS-UP" COST DEVELOPMENT.
20	
21	A. BellSouth's "bottoms-up" inputs were obtained from two basic sources. First
22	Outside Plant Contractor costs for each district in Florida were reviewed. These
23	contracts provided the individual work item price, e.g. the price to place a pole, to
24	bore a driveway, or to bury a cable. BellSouth then used the amount of usage that
25	occurred during 2000 to develop an average contractor cost for each type of activity.

-7-

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1 Attachment 3 in Appendix B of the cost study details the calculations performed to 2 develop the contractor cost input associated with pole placement, conduit, manhole, 3 and their placements, buried cable placement, etc. 4 5 The second input source was the Outside Plant Construction Management 6 ("OSPCM") system. The OSPCM is the same system used by BellSouth's Network 7 organization to estimate job costs. Attachment 4 in Appendix B of the cost study 8 provides the source code data and assumptions taken from the OSPCM system for 9 the development of splicing and placing time inputs. 10 **Q. CAN YOU PROVIDE A DESCRIPTION OF THE SOURCES AND** 11 12 ASSUMPTIONS USED IN THE DETERMINATION OF EACH CATEGORY OF INPUT IN THE "BOTTOMS-UP" ANALYSIS? 13 14 15 A. Yes. The following discussion will describe how each category of input, as they correspond to the BSTLM input tables, was derived. Attachment 1 in Appendix B 16 17 of the cost study displays the resulting input. 18 19 Aerial Structure Contract Labor 20 Contract labor costs for placing poles were obtained from actual outside contractor 21 contracts in each district in Florida. Each district contractor's price was weighted 22 by the amount of usage in the district in 2000 to arrive at a weighted average price 23 . for an average size pole placement in the state. Contract labor associated with 24 placement of anchors was also obtained from the outside contractor contracts in 25 each district in Florida. Guys are placed by BellSouth personnel, and the time

- required to install a guy was obtained from the OSPCM system.
- 2

3 <u>Aerial Structure (Material)</u>

Pole material prices were also obtained from actual outside contractor contracts in each district in Florida. Each district contractor's price was weighted by the amount of usage in the district in 2000 to determine a weighted average material price for an average size pole in the state. The material costs of anchors and guys are exempt material and are captured in the exempt material loading for poles.

9

10 Buried Excavation Contract Labor

11 While the BSTLM input tables were modified to allow contractors' buried

12 excavation prices to vary dependent on the terrain type, agreements between

13 BellSouth and its outside contractors do not differentiate prices by terrain type.

14 Therefore, all excavation cost values are the same, regardless of terrain type.

15 Excavation costs were determined in the same manner as the aerial structure

16 contract labor costs. Contract labor costs for buried excavation activities were

17 obtained from actual outside contractor contracts in each district in Florida. Each

18 district contractor's price was weighted by the amount of usage in the district in

19 2000 to arrive at a weighted average price per foot for buried excavation in the

- 20 state.
- 21

22 Underground Excavation Contract Labor

23. While the BSTLM input tables were modified to allow contractors' underground

excavation prices to vary dependent on the terrain type, the agreements between

25 BellSouth and its outside contractors do not differentiate prices by terrain type.

1	Therefore, all underground excavation cost input is the same regardless of terrain
2	type. Underground excavation costs were determined in the same manner as the
3	buried excavation contract labor costs. Contract labor costs for underground
4	excavation activities were obtained from actual outside contractor contracts in each
5	district in Florida. Each district contractor's price was weighted by the amount of
6	usage in the district in 2000 to calculate a weighted average price per foot for
7	underground excavation in the state.
8	Structure Sharing
9	BellSouth only expects to share in the cost of buried structure approximately 6% of
10	the time in Florida. When sharing occurs, BellSouth has assumed that BellSouth
11	and two other parties will share in the cost of buried placement. Therefore, buried
12	sharing is calculated as follows:
13	
14	94% X 100% = 94%
15	6% X 33.33% = 2%
16	Total 96%
17	The 96% reflects the amount of buried structure cost assigned to BellSouth.
18	
19	For aerial plant sharing, BellSouth owns approximately 40% of the poles in its
20	territory in Florida. Therefore, BellSouth has used 40% as the amount of pole
21	costs assigned in its cost studies.
22	
23	For underground sharing, BellSouth rarely, if ever, shares conduit placement costs
24	with another party. BellSouth does lease a small amount of its conduit space to
25	others and has included that amount in the underground sharing percentage as

1	follows:		
2			
З		Duct feet in Florida	192,128,640
4		Leased to others	129,754
5		Assigned to BellSouth	99.93%
6			
7	Facility Shar	ing (between feeder and dist	<u>ribution)</u>
8	The BSTLM _I	provides the ability for sharing	of structure between feeder and
9	distribution ca	bles when both are located alo	ng the same path; however, this type
10	of sharing of s	structure rarely occurs accordin	g to Network subject matter experts.
11	This lack of sl	naring between feeder and dist	ribution occurs for many reasons
12	including the	fact that placement of feeder ar	nd distribution cables do not always
13	coincide in tin	ning, often access to distributio	on cables is needed more frequently
14	than manhole	spacing for feeder cable would	allow, etc. Based on the fact that
15	experts predic	t very little sharing of structure	between distribution and feeder,
16	BellSouth has	assumed that when both are fo	ound on the same path that sharing of
17	structures occi	urs 25% of the time in a forwar	rd-looking environment. While
18	BellSouth beli	eves the actual sharing will be	less, the 25% reflects the expected
19	upper limit.		
20			
21	<u>Media Sharir</u>	19	
22	In BellSouth's	s previous filing, the Media Sh	aring table was populated with input
23.	values that res	ulted in a 50%/50% sharing of	f structure between copper and fiber

- 24 when both copper and fiber cables were placed on, or in, the same structure. These
- 25 values were not used in previous filings since all structure costs resulted from

1 either in-plant factors or pole/conduit factors in the BellSouth Cost Calculator 2 rather than from the BSTLM, itself. However, since the BSTLM is calculating 3 structure costs in this filing, the BSTLM approach was changed to improve the 4 logic previously provided through this table. Now, instead of using the Media 5 Sharing table, the logic of the updated BSTLM apportions, on both distribution 6 and feeder routes that have both copper and fiber cables, the costs of structure 7 (poles, trenching, etc.) between the media based on the number of DS0 equivalents 8 on each cable. This is consistent with how DLC common equipment, fiber, and the structure for fiber are apportioned in the model. Additionally, in its Order in 9 10 this docket, the Commission found with respect to the use of DS0 equivalents: "Of 11 the two factors, competitive impact or causal linkage, we believe that where 12 possible, cost causal connections should get the nod when designing cost models. 13 Thus, based on the evidence, we find that the BSTLM method of allocating shared 14 investments based on DS0 equivalents is reasonable." (Order, Page 134)

15

16 Feeder Distribution Interface (FDI) Placing Hours

17 The BSTLM is designed to assume that FDIs are placed by telephone company 18 personnel (i.e., placement hours X labor rate), however, FDIs are typically placed 19 by outside contractors in BellSouth. This inconsistency in the BSTLM approach 20 and BellSouth input was not discovered in time to correct the model. Therefore, 21 BellSouth has taken contractor costs and converted them to hours by dividing the 22 contractor costs by the BellSouth installation labor rate. Further, the outside plant 23 contracts have a fixed placement cost for FDIs weighing between 101 and 800 24 pounds, another cost for 801 to 1700 pounds, and a third price for 1701 to 4000 25 pounds. These contractor costs for various weights have been used for each

- 1 applicable FDI size in the BSTLM after being converted to labor hours to fit the
- 2 format of the BSTLM input table.
- 3

4 <u>Aerial Structure Placing Hours (Telco)</u>

- 5 Since outside contractors place poles for BellSouth, this table is only used for the
- 6 time to place a guy, which is handled by BellSouth personnel.

7 DTBT Splicing and Placing Hours

- 8 Times for closure and setup, cross connects and splicing were obtained from the
- 9 OSPCM system used by BellSouth to estimate job costs for internal purposes.
- 10 While the material prices for terminals of sizes 100 pairs or less are exempt
- 11 material, the labor to install these terminals is not. Therefore, the times are
- 12 populated for all sizes of terminals.
- 13

14 Media Splicing and Placing Hours

- 15 Times for placing and splicing aerial, buried and underground copper and fiber
- 16 cables were obtained from the OSPCM system used by BellSouth to estimate job
- 17 costs for internal purposes. Since outside contractors place buried cable, buried
- 18 placing costs are zero in this table.
- 19

20 FDI Splicing

- Times for FDI splicing were obtained from the OSPCM system used by BellSouth
 to estimate job costs for internal purposes.
- 23

24 Percent Activities

25 Similar to other proxy-type cost models, the BSTLM requires knowledge of not

1 only the cost of various activities associated with placing the structure for cable, 2 but also the likelihood that each of those activities will occur in various density 3 zones and various terrain types. Actual data regarding these probabilities by 4 density and terrain type does not exist. However, BellSouth's subject matter 5 experts previously reviewed the default percentages used in the BenchMark Cost 6 Proxy Model ("BCPM") and found them to be a reasonable reflection of BellSouth 7 experience in various terrain and density combinations. Additionally the 8 Commission approved the use of these "percent activities" in the Universal Service 9 Fund ("USF") Docket No. 980696-TP. BellSouth used those same percentages in 10 this filing. Modifications were required, however, since the BCPM included nine 11 density zones and separated feeder from distribution. The BSTLM, on the other 12 hand, includes a breakdown into three density groups (which are groupings of the 13 density zones) - urban, suburban and rural - and combines feeder and distribution 14 into one table. Thus, BellSouth combined the feeder percent activities previously 15 approved by the Commission such that areas with fewer than 200 lines per square 16 mile are classified as rural, areas with between 201 and 5000 lines per square mile 17 are treated as suburban, and areas with more than 5000 lines per square mile are 18 considered urban.

19

20 Other Material Loadings

21 While BellSouth has used the capabilities of the BSTLM to develop a "bottoms-

22 up" approach to determining installation and engineering costs, there remain

- 23 certain items of investment that are calculated via factors. Those items include
- sales tax, exempt material, supply expense, and other items such as indirect labor
- 25 costs, right of way and tree trimming associated with initial cable placements, and

interest during construction. These items are included in this filing in the Material
 Loading table. Attachments 5 and 5A in Appendix B to the cost study provide a
 description and explain the development of these factors.

4

5 Pole, Guy and Anchor, and Manhole Spacing

6 Pole spacing was determined by examining 12/31/00 ARMIS Report 43-08 for 7 Florida to determine the number of poles in the state relative to the sheath distance 8 of aerial cable in the state. Worksheets displaying the development of the pole 9 spacing input are shown in Attachment 1 of Appendix B to the cost study. The 10 number of poles owned by BellSouth in Florida were adjusted by the percentage of 11 poles owned by BellSouth to arrive at the total number of poles to which BellSouth 12 cable is attached in Florida. Then, this adjusted number of poles was divided into 13 the aerial sheath feet in Florida. The result was 112 feet of aerial sheath per pole. 14 BellSouth rounded this up to an even 120 feet. This result is extremely 15 conservative given the fact that this methodology assumes only one existing 16 BellSouth sheath on each pole line route, when in reality there are often two or 17 more sheaths on a given pole line. If one were to assume 1.5 sheaths, on average, 18 per pole line, the spacing interval would drop to approximately 75 feet. 19 20 Anchor and guy spacing is estimated to be every 500 feet (roughly every 4 poles) 21 and manhole spacing is assumed to be every 625 feet based on subject matter 22 expert estimates. 23.

24 <u>Underground Conduit and Manhole Contractor Costs</u>

25 Conduit duct costs and manhole costs, like the underground excavation contract

1	labor costs, were also obtained from actual outside contractor contracts in each
2	district in Florida. Each district contractor's price was weighted by the amount of
3	usage in the district in 2000 to determine a weighted average price for furnishing
4	and installing conduit and manholes in the state. As specified in the contracts,
5	contractors charge to place manholes on a per cubic foot basis. Therefore, the
6	BSTLM inputs for manhole costs were based upon the total cubic feet of the
7	different sizes.

8

9 Engineering

- 10 The BSTLM's internal logic in the previous filing (August 2000) calculated
- 11 engineering as a loading on material. For the 120-day filing, the BSTLM logic
- 12 has been modified to now calculate engineering costs by applying factors to the
- 13 total of non-engineering investments (i.e., as a loading on material, installation
- 14 labor, sales tax, and other loadings.) The engineering factors used and included in
- 15 the January 28, 2002 filing are account-specific and were developed from the
- 16 same data source previously used to derive in-plant factors, the 1998 State and
- 17 Local Sales Taxes, Resource Tracking Analysis and Planning ("RTAP") System,
- 18 and Special Report/File 542 1998 Investments. The basic factor calculation is
- 19 (TELCO Engineering + Vendor Engineering)/(TELCO Labor + Vendor Labor +
- 20 Exempt Material + Non-exempt Material + Other)

21 Engineering

- 22 Engineering costs were obtained from the OSPCM-system. While previous filings
- 23 treated engineering as a linear factor of non-exempt material, the engineering input
- 24 from OSPCM is applied as a factor of total non-engineering investments (i.e., as a
- 25 loading on non-exempt material, exempt material, labor, contractor costs, sales tax,

and other loadings). The BSTLM logic in the provious filing calculated

2 engineering as a loading on material. For this filing, the BSTLM logic has been

- 3 modified to now calculate engineering in the same manner as the OSPCM by
- 4 applying the factor to the total of non-engineering investments.
- 5

1

6 Outside Contractor Use (Engineering Rules)

7 This input table was not used in the previous filing by BellSouth since all 8 contractor and BellSouth labor was calculated via in-plant factors in the Cost 9 Calculator. This table directs the BSTLM to use either contractor installation or 10 BellSouth personnel installation ("Y" indicates contractor while "N" indicates 11 BellSouth personnel). Since poles are placed by contractors and guys are placed 12 by BellSouth personnel, the table was modified to include a third option for Poles 13 ("B" indicates that both contractor and BellSouth installation is required). 14 Additionally, even though not used, this table was populated in the previous filing 15 and two entries required correction. The indicators for DTBT and FDI were 16 changed from "Y" to "N" to reflect the fact that BellSouth personnel placed FDIs 17 (see discussion of FDI placing hours above) and terminals. 18 **O. HOW DO THE RECURRING COSTS OBTAINED FROM USE OF THE** 19 20 "BOTTOMS-UP" APPROACH COMPARE TO COSTS USING IN-PLANT 21 FACTORS?

22

23. A. Some of the element costs have increased, while others have decreased, even

24 though all costs are based on the same "bottoms-up" input values and BSTLM

algorithms. For example, the Service Level 1 ("SL1"), SL2, ISDN, and 4 wire

1	
1	DS1 loops have increased in every zone as compared with the current
2	Commission-ordered rates. On the other hand, 2 wire and 4 wire UCL-Long loops
3	have decreased in every zone. Additionally, for a given element, one deaveraged
4	zone cost may have increased while another zone cost has decreased. For
5	example, the 2 wire UCL-Short loop's zone 1 cost increased while zones 2 and 3
6	decreased. Exhibit DDC-1_120 compares BellSouth's "bottoms-up" cost study to
7	the revised Commission-ordered rates contained in Appendix A of Order PSC-01-
8	2051-FOF-TP. (The Commission-ordered rates are those that reflect the impact of
9	inflation.) As one can see from reviewing this exhibit, the differences do not seem
10	to follow any pattern.
11	
12	Issue 1(b): Should BellSouth's loop rates or rate structure previously approved
13	in Order No. PSC-01-1181-FOF-TP be modified? If so, to what
14	extent, if any, should the rates or rate structure be modified?
14 15	extent, if any, should the rates or rate structure be modified?
	extent, if any, should the rates or rate structure be modified? Q. FROM A COST PERSPECTIVE, WHAT IS YOUR OPINION ON THIS
15	
15 16	Q. FROM A COST PERSPECTIVE, WHAT IS YOUR OPINION ON THIS
15 16 17	Q. FROM A COST PERSPECTIVE, WHAT IS YOUR OPINION ON THIS
15 16 17 18	Q. FROM A COST PERSPECTIVE, WHAT IS YOUR OPINION ON THIS ISSUE?
15 16 17 18 19	 Q. FROM A COST PERSPECTIVE, WHAT IS YOUR OPINION ON THIS ISSUE? A. First, the Commission must also consider Order PSC-01-2051-FOF-TP, which re-
15 16 17 18 19 20	 Q. FROM A COST PERSPECTIVE, WHAT IS YOUR OPINION ON THIS ISSUE? A. First, the Commission must also consider Order PSC-01-2051-FOF-TP, which reinstated the impact of inflation. Once the decisions contained in that ruling are
15 16 17 18 19 20 21	 Q. FROM A COST PERSPECTIVE, WHAT IS YOUR OPINION ON THIS ISSUE? A. First, the Commission must also consider Order PSC-01-2051-FOF-TP, which reinstated the impact of inflation. Once the decisions contained in that ruling are considered, there is no reason to modify the loop rates or the rate structure. From the discussion I have presented on the input development, one can see that the
15 16 17 18 19 20 21 22	 Q. FROM A COST PERSPECTIVE, WHAT IS YOUR OPINION ON THIS ISSUE? A. First, the Commission must also consider Order PSC-01-2051-FOF-TP, which reinstated the impact of inflation. Once the decisions contained in that ruling are considered, there is no reason to modify the loop rates or the rate structure. From the discussion I have presented on the input development, one can see that the
15 16 17 18 19 20 21 22 23	 Q. FROM A COST PERSPECTIVE, WHAT IS YOUR OPINION ON THIS ISSUE? A. First, the Commission must also consider Order PSC-01-2051-FOF-TP, which reinstated the impact of inflation. Once the decisions contained in that ruling are considered, there is no reason to modify the loop rates or the rate structure. From the discussion I have presented on the input development, one can see that the "bottoms-up" approach taken by BellSouth is a much more complex study of loop

-18-

1	in-plant factors and structure loading factors produces reasonable, accurate results
2	and that the ordered rates should remain as is. Cost studies produce estimates of
3	cost, not absolute results. While the "bottoms-up" approach produces very specific
4	results, these results are a combination of a much larger number of influencing
5	variables and inputs than was present under the factor approach. Under the
6	"bottoms-up" method, depending upon the customer location, the type and size of
7	facilities, and number of services, the costs can vary substantially, as Exhibit
8	DDC-1_120 illustrates. In contrast, in-plant and loading factors reflect
9	experienced cost relationships between material prices and labor/engineering costs.
10	
11	Furthermore, the "bottoms-up" approach introduces an extensive set of new inputs
12	that can be questioned, criticized and manipulated by intervening parties. While
13	BellSouth is not afraid of this scrutiny, it does not believe that the end-result of
14	such an effort will produce either a better quality result or a more "TELRIC-
15	compliant" result.
16	
17	Issue 2(a): Are the ADUF and ODUF cost studies submitted in BellSouth's
18	120-day filing compliance filing appropriate?
19	Q. WHY DID BELLSOUTH FILE ADUF AND ODUF COSTS IN THIS PHASE
20	OF THE DOCKET?
21	
22	A. Even though the Commission's Order did not specifically include these elements
23	in the 120-day requirement, substantial changes to the study inputs necessitated
24	that BellSouth advise the Commission. The costs for the DUF elements BellSouth
25	filed on October 8, 2001-reflect the applicable Commission-ordered modifications

-19-

1 I discussed previously. As I explain below, BellSouth is revising the DUF element 2 costs further and is filing a revised cost study simultaneously with this testimony 3 (Cost Study - Revision 2). 4 5 Q. PLEASE BRIEFLY EXPLAIN WHAT THE ADUF AND ODUF 6 ELEMENTS ARE AND HOW THE COSTS WERE DEVELOPED. 7 8 A. In fact, there are three different daily usage offerings; Access Daily Usage Files 9 ("ADUF"), Optional Daily Usage Files ("ODUF"), and Enhanced Optional Daily 10 Usage Files ("EODUF"). Each of the offerings provides electronic billing data to 11 the ALECs: 12 13 ADUF - information of end user's daily originating and terminating access carrier 14 messages. BellSouth extracts and distributes call detail on these access messages. 15 16 ODUF - call detail information for billable messages transported through 17 BellSouth's network and processed in BellSouth's CRIS (Customer Records 18 Information System) billing system. BellSouth extracts and distributes call detail 19 on messages such as, Measured Local, IntraLATA Toll, and operator-handled calls 20 if the ALEC purchases Operator Services from BellSouth. This element is 21 applicable to both UNEs and resale. 22 23 EODUF - usage data for local calls that originate from resold, flat-rated business 24 and residential lines. BellSouth extracts and distributes call detail on these 25 messages.

BellSouth has developed unique programs at the ALEC's request in order to
extract the billing data they requested, in a format such that they can bill their endusers. The costs associated with this on-going process and the computer resources
required to implement and support the programs are reflected in BellSouth's cost
study. These costs are incremental to BellSouth's normal billing process.

8 Q. WHY WERE THESE COST STUDIES FOR THE DAILY USAGE FILE 9 ("DUF") ELEMENTS REVISED?

10

A. When BellSouth developed the cost study inputs in the original filing (August 11 12 2000), the actual number of records was low and rather stagnant. The projected 13 demand reflected this trend. Since the time the original cost study was filed in this 14 docket, however, BellSouth experienced a dramatic increase in the number of 15 message records. The increase in the number of resale to UNE-P (combination) 16 conversions may have caused this upswing. Since the cost results for the DUF 17 elements are demand-dependent, BellSouth included the DUF elements as part of 18 the 120-day items. In fact, in gathering cost input for the most recently initiated 19 generic cost docket in BellSouth's region (Georgia Docket No. 14361-U), 20 projected demand for ADUF and ODUF has increased over what was filed on October 8th in Florida. (The EODUF demand has decreased, increasing the costs 21 22 slightly.) Exhibit DDC-1_120 displays the results of updating this demand. As I 23 mentioned previously, concurrent with the filing of this testimony, BellSouth is 24 filing its revised cost study to incorporate this change in demand to the DUF elements. Only the DUF results changed from the study filed on October 8, 2001. 25

1

1	The DUF elements were not impacted by any of the revisions made with the
2	January 28, 2002 filing.
3	
4	Issue 2(b): Should BellSouth's ADUF and ODUF rates or rate structure
5	previously approved in Order No. PSC-01-1181-FOF-TP be
6	modified? If so, to what extent, if any, should the rates or rate
7	structure be modified?
8	
9	Q. WHAT IS YOUR OPINION ON THIS ISSUE?
10	
11	A. The Commission should consider the updated information on DUF costs filed here.
12	BellSouth, in good faith, has advised this Commission of a supportable change to a
13	cost study input. Since the change results in a reduction of ADUF and ODUF
14	rates, the intervening parties would not be adversely affected by a decision to
15	consider the revised cost study. Let me clarify one point, the issue here is whether
16	or not the rates should be revised. It is NOT a question of whether or not DUF
17	rates are appropriate. This issue has already been litigated in the first phase of this
18	proceeding and the Commission established rates in both Order No. PSC-01-1181-
19	FOF-TP and in Order No. PSC-01-2051-FOF-TP, which considered inflation.
20	
21	Issue 3(a): Are theUCL-ND loop cost studies submitted in BellSouth's 120-day
22	filing compliant with Order No. PSC-01-1181-FOF-TP?
23	
24	Q. WHY DID BELLSOUTH FILE A COST STUDY FOR UCL-ND IN THIS
25	PHASE OF THIS DOCKET?

-22-

2 A. One of the "120-day" requirements identified by this Commission was to 3 determine xDSL nonrecurring costs that exclude the Design Layout Record 4 ("DLR"), test point, and order coordination. The Unbundled Copper Loop - Non-5 Designed ("UCL-ND") fulfills that obligation. In addition, this all copper loop 6 offering satisfies the Commission's requirement that BellSouth provision SL1 7 loops and guarantee not to roll them onto another facility or convert them to 8 another technology. The UCL-ND gives the ALECs what they need to provide 9 xDSL service, but does not unduly restrict BellSouth in providing voice grade 10 service over the most efficient technology. 11 12 Q. HOW DOES THE UNBUNDLED COPPER LOOP - NON-DESIGNED 13 DIFFER FROM THE UNBUNDLED COPPER LOOPS PREVIOUSLY 14 FILED BY BELLSOUTH IN THIS DOCKET? 15 16 A. As the name implies, these loops do not go through the design process BellSouth 17 utilizes to provision UCL-Short and UCL-Long loops. Thus, they are not 18 provisioned with a test point and a DLR will not be provided. Additionally, the 19 UCL-ND loop will not have a specific length limitation. Since its resistance is

20 restricted to 1300 ohms, however, the UCL-ND loop generally will be 18,000 feet

21 or less. However, in some cases, the length may be longer based on gauge.

22

1

23 Even though the DLR is not provided with the UCL-ND loop, ALECs may request

an Engineering Information document from BellSouth (element A.1.8). This

25 document provides loop make-up information, similar to a DLR. The October 8th

-23-

1		cost study also includes the cost development for this optional element The cost				
- 2		of Element A.1.8 was not impacted by the January 28, 2002 revision.				
3						
4	Q.	ноч	W DOE	S THE RECURRING COST OF UCL-ND LOOPS (COMPARE	
5		то	OTHER	TYPES OF LOOPS?		
6						
7	A.	The	table bel	ow compares the statewide average recurring cost of an	1 SL1, SL2,	
8		ADSL, HDSL, UCL-Short and UCL-Long to the UCL-ND loop based on the				
9		"bottoms-up" approach.				
10						
11			A .1 1	2-Wire Analog Voice Grade Loop - Service Level 1	\$19.52	
12			A,1.2	2-Wire Analog Voice Grade Loop - Service Level 2	\$2 1.72	
13			A.6.1	2-Wire Asymmetrical Digital Subscriber Line (ADSL) Compatible Loop	\$15.66	
14			A.7.1	2-Wire High Bit Rate Digital Subscriber Line (HDSL) Compatible Loop	\$13.60	
15			A.13.1	2-Wire Copper Loop short	\$15.66	
16			A.13.7	2-Wire Copper Loop - long	\$32.19	
17			A.13.12	2-Wire Copper Loop - ND	\$15.21	
18						
1 9		Note that the UCL-ND loop is less than both an UCL-Short loop and an SL1 loop,				
20		and significantly less than the UCL-Long loop. This is consistent with the fact that				
21		test points have been removed and that the UCL-ND has no length restriction, but				
22		is generally less than 18,000 feet because of the 1300-ohm resistance limit. In				
23	-	running the Copper-Only scenario in the BSTLM, the loop limit was set at 24,000				
24		feet in order to capture those loops that potentially would still meet the 1300-ohm				
25		restriction, but exceed the 18,000 feet limit. In fact, the average loop length for the				

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1 UCL-ND generated by the BSTLM is 13,258 feet. 2 Q. HOW DOES THE NONRECURRING COST OF UCL-ND LOOPS 3 **COMPARE TO OTHER TYPES OF LOOPS?** 4 5 A. The nonrecurring cost of an UCL-ND is less than the nonrecurring costs associated 6 with designed loops. Additionally, it is less than the SL1 because it is an all-7 copper loop and thus, a plug-in does not have to be provisioned in the digital loop 8 carrier system. 9 10 Q. ARE THERE OTHER ADJUSTMENTS TO THE COST STUDY THAT 11 ARE REQUIRED DUE TO THE UCL-ND OFFERING? 12 13 A. Yes. As I mentioned previously, this type of loop is non-designed. Thus, no test 14 point is provisioned. ALECs, however, may desire a joint acceptance test to 15 benchmark the transmission quality of the loop and to ensure compatibility with 16 the xDSL service they wish to provide. These testing parameters include, but are 17 not limited to, testing for non-loading, balance of pair, and continuity from the 18 main distribution frame ("MDF") to the network interface device ("NID"). 19 BellSouth filed Testing Beyond Voice (A.19 elements) previously in this docket. 20 These costs, however, only considered testing a designed loop that had been 21 conditioned. The adjusted loop testing elements also consider testing parameters 22 for non-designed loops (SL1 or UCL-ND). Exhibit-DDC-1_120 illustrates the 23 difference in the A.19 costs between the current Commission ordered rates and the 24 latest cost study. 25

1	
2	Issue 3(b): What modifications, if any, are appropriate and what should the
3	rates be?
4	
5	Q. SHOULD THIS COMMISSION USE THE COSTS FILED HERE TO SET
6	RATES FOR UCL-ND ELEMENTS?
7	
8	A. No. As discussed in response to Issue 1(b), BellSouth does not believe that the
9	"bottoms-up" approach develops a more representative result than the use of
10	factors. Let me note that BellSouth has also filed the UCL-ND elements in Docket
11	No. 960786-TP (271 docket) based on the use of in-plants and loading factors.
12	Those cost studies reflect the Commission-ordered adjustments except for the re-
13	instatement of inflation. BellSouth requests that the Commission establish rates
14	for the UCL-ND related elements in Docket No. 960786-TP once inflation is
15	considered.
16	
17	Issue 4(a): What revisions, if any, should be made to NIDs in both the BSTLM
18	and the stand-alone NID cost study?
19	Issue 4(b): To what extent, if any, should the rates or rate structure be modified?
20	
21	Q. ARE REVISIONS REQUIRED TO THE CALCULATION OF BOTH
22	TYPES OF NID COSTS?
23	
24	A. No. Adjustments are not required to both the NID cost considered in the BSTLM
25	and to the stand-alone NID costs. The stand-alone NID costs, however, do require

1 revision. Let me explain.

At pages 192-93 of Order No. PSC-01-1181-FOF-TP, the Commission noted an
inconsistency in the treatment of exempt/miscellaneous material for the standalone NID and the exempt/miscellaneous material associated with the NID when it
is provisioned with the loop (via the BSTLM).

6

Typically, the NID is provisioned with the loop at the time the residence or
business is constructed and the drop wire is placed and treated as capitalized
investment. For most cable placements in BellSouth's studies, exempt material is
recovered through an In-Plant factor; however, a different approach is taken for the
NID and drop. BellSouth, in the BSTLM, directly identifies items normally
captured in an In-Plant factor (labor, exempt materials, sales tax, etc.) for the
capitalized drop and NID.

14

Thus, because the NID investment generated by the BSTLM already considers 15 16 exempt material, taxes, labor, etc., the BellSouth Cost Calculator does not need to 17 apply the In-Plant factors to drop and NID investments. BellSouth reflected this by assigning special "sub-FRCs" to the drop and NID. These special sub-FRC codes 18 are 22C-01 or 45C-01. The "01" sub-FRCs instruct the BellSouth Cost Calculator 19 20 not to apply In-Plant factors to those items of plant. Therefore, BellSouth's NID 21 costs associated with unbundled loops are correct and no "double-counting" of In-22 Plant costs associated with the NID or drop occurs.

23 .

On the other hand, Stand-Alone NID/NID Access is a separate UNE offering
 designed for situations where the existing NID is not suitable for ALEC connection

1	and where	e BellSouth terminates its loop directly to the inside wire, or at the				
2	ALEC's request. BellSouth charges a nonrecurring fee for the installation of,					
3	material for, and cross connect (if appropriate) to the stand-alone NID. The stand-					
4	alone NID material (housing, interface, and protectors) is exactly the same as the					
5	NID placed with the loop. As found by the Commission in its Order, BellSouth					
6	did not ap	oply exempt materials in the stand-alone NID study. In fact, BellSouth				
7	should in	deed have included exempt material in its stand-alone NID costs.				
8	BellSouth has included this adjustment in this filing. Further, these are the					
9	appropriate costs to be used to establish rates for Stand-Alone NID/NID Access					
10	elements.					
11						
12	Issue5 (a):	What is a "hybrid copper/fiber xDSL-capable loop" offering and				
13		is it technically feasible for BellSouth to provide it?				
14						
15	(b)	Is BellSouth's cost study contained in the 120-day compliance				
16		filing for the "hybrid copper/fiber xDSL-capable loop" offering				
17		appropriate?				
18						
19	(c)	What should the rate structure and rates be?				
20						
21	Q. THE CO	MMISSION'S ORDER STATED "WE BELIEVE BELLSOUTH IS				
22	OBLIGA	TED, IF TECHNICALLY FEASIBLE, TO PROVIDE HYBRID				
23	COPPER	VFIBER XDSL-CAPABLE LOOPS TO DATA ALECS." WHAT				
24	24 COST SUPPORT HAS BELLSOUTH FILED IN SUPPORT OF THE					
25	5 HYBRID COPPER/FIBER LOOP?					

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2 A. BellSouth filed the recurring and nonrecurring costs associated with providing data 3 ALECs the ability to utilize a loop served by fiber-fed digital loop carrier ("DLC") 4 systems (i.e., loops comprised of fiber feeder and copper distribution) to offer 5 digital subscriber line ("DSL") services to their end-users, without unbundling 6 packet switching. The distribution portion of the loop is comprised of a dedicated 7 2-wire physical transmission facility which is connected to a dedicated 16-port 8 Digital Subscriber Line Access Multiplexer ("DSLAM"). From the DSLAM, a 9 dedicated DS1 is required through the DLC remote terminal ("RT") to the central 10 office terminal ("COT") to the ALEC's collocated space in the central office. 11 Exhibit DDC-2_120 depicts the components of the Hybrid Copper/Fiber loop. 12 BellSouth witness Mr. Jerry Kephart addresses the feasibility issue and discusses 13 why this configuration fulfills the Commission's directive. I address how the costs 14 were developed.

15

16 The BSTLM developed the investments associated with the DS1 component of the 17 Hybrid Copper/Fiber Loop. Let me note that this sub-loop feeder DS1 is not the 18 same as the unbundled sub-loop feeder - 4-wire DS1 (element A.9.2) also filed in 19 this docket. The sub-loop feeder DS1 (A.9.2) includes the feeder portion of all 20 DS1 loops. These include DS1 loops served by both copper feeder and those 21 served by fiber feeder facilities to a remote DLC terminal. The Hybrid 22 Copper/Fiber DS1 (element A.20.1), on the other hand, only considers locations 23. served via a remote DLC terminal served by fiber. Thus, all of the locations used 24 in the calculation of the sub-loop feeder – 4-wire DS1 are not included in the cost calculation of the Hybrid Copper/Fiber DS1. The material prices for the 16-port 25

1

- 1 DSLAM were obtained from vendor contracts.
- 2 The nonrecurring costs reflect the work activities required to connect and turn-up 3 · the DS1 and the 2-wire transmission facility onto the DSLAM. In order to make 4 this a functional loop and to reflect the manner in which the loop will be 5 provisioned, the individual network components must be summed into (1) System, 6 (2) DS1, and (3) Activation elements. 7 8 Q. PLEASE DESCRIBE WHICH COMPONENTS ARE CONSIDERED IN 9 THE SYSTEM, DS1, AND ACTIVATION COSTS. 10 11 A. The System element represents the cost of the DSLAM (element A.20.3) with an 12 administrative DS1 (A.20.1), which is used for BellSouth's management of the 13 DSLAM. This administrative DS1 does not terminate at the ALEC's collocation 14 space. Instead, it terminates into a DSL hub bay in order to allow BellSouth to 15 control the provisioning, maintenance, and repair of the xDSL Hybrid 16 Copper/Fiber loop. The cost of the administrative DS1 does not differ from the 17 DS1 that terminates into the ALEC's collocation space. 18 19 The DS1 element accounts for the cost of the fiber DS1 that essentially connects 20 the DSLAM at the RT to the ALEC's collocated space in the central office. The 21 recurring cost is equal to the Hybrid Copper/Fiber DS1 (element A.20.1). The 22 nonrecurring cost is the sum of the DS1 establishment element (A.20.2) and the 23 nonrecurring cost associated with the Sub-loop Feeder per 4-wire DS1 element 24 (A.9.2). Let me note that the nonrecurring cost for A.9.2 was not restudied since 25 the Commission has set a rate for this element. Rather, the rate (\$133.77) was

1	hard-coded into the Final Cost Summary.					
2	The Activation nonrecurring cost is the sum of the channel activation cost (element					
3	A.20.4) and the nonrecurring cost associated with the 2-wire distribution sub-loop					
4	(element A.2.2). As with element A.9.2, the nonrecurring cost for A.2.2 was not					
5	restudied since the Commission has set a rate for this element. Rather, the rate					
6	(\$60.19) was hard coded into the Final Cost Summary.					
7						
8	Issue 6: In BellSouth's 120-day filing, has BellSouth accounted for the impact					
9	of inflation consistent with Order No. PSC-01-2051-FOF-TP?					
10						
11	Q. WHAT IS YOUR RESPONSE TO THIS ISSUE?					
12						
13	A. BellSouth's cost studies are in compliance with the Commission's directive on					
14	inflation. Order No. PSC-01-2051-FOF-TP states: "we hereby reconsider our					
15	decision to reject BellSouth's proposed inflation factor, because it was based upon					
16	a misinterpretation and misrepresentation of the facts presented." (Page 5) Thus,					
17	the Commission found that the application of inflation factors to both the					
1 8	investment and to labor rates is appropriate. The cost study filed on October 8,					
19	2001 reflects the impact of inflation based on factors originally filed in this docket.					
20	BellSouth made no adjustment to the inflation application in the January 28, 2002					
21	filing.					
22						
23	Issue 7: Apart from issues 1-6, is BellSouth's 120-day filing consistent with					
24	the orders in this docket?					
25						

1 Q. WHAT IS YOUR RESPONSE	TO THIS	ISSUE?
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3	A.	The cost studies	filed by	BellSouth	incorporate	all of the	adjustments	ordered by
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- 4 this Commission. I have described the modifications as part of this testimony.
- 5 Further, the cost study contains a detailed discussion of the adjustments made by
- 6 BellSouth in order to comply with the Commission's directive.
- 8 Q. DOES THIS CONCLUDE YOUR TESTIMONY?

- 10 A. Yes.

- . .

- 23,
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