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e.spire Exhibit _____ Revised Testimony of C. William Stree, III

BEFORE THE STATE OF FLORIDA PUBLIC SERVICE COMMISSION

In the Matter of

Petition by E.SPIRE COMMUNICATIONS, INC., and ACSI LOCAL SWITCHED SERVICES, INC., AMERICAN COMMUNICATION SERVICES, OF TAMPA, INC., and AMERICAN COMMUNICATION SERVICES OF JACKSONVILLE, INC. for Arbitration of an Intercon occuon Agreement with BELLSOUTH TELECOMMUNICATIONS, INC. Pursuant to Section 252(b) of the Telecommunications Act of 1996 Docket No. 981745-TP

REVISED DIRECT TESTIMONY OF C. WILLIAM STIPE, III ON BEHALF OF E.SPIRE COMMUNICATIONS, INC.

FEBRUARY 4, 1999*

*Resubmitted on February 19, 1999 with cross-references to the Florida Issues List as it appears in e.spire's February 18, 1999 Issues List Letter. Text that pertained exclusively to settled issues has been deleted.

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DOCUMENT NUMBER-DATE

1	Q.	PLEASE STATE YOUR NAME, POSITION AND BUSINESS ADDRESS.
2	Α.	My name is C. William Stipe III and I am Vice President - Network Engineering for
3	*,	e spire Communications, Inc. ("e.spire"). My business address is 12701 Fair Lakes
4		Circle, Suite 800, Fairfax, Virginia 22033.
5	Q.	PLEASE DESCRIBE YOUR BUSINESS EXPERIENCE AND BACKGROUND.
6	Α.	Since joining e.spire more than two years ago, I have been responsible for switch
7		engineering and have overseen the company's installation of its first Lucent SESS switch
8		and more than 20 others. For the past eight months, I also have been responsible for
9		e.spire's SONET and network backbone electronics engineering. Prior to joining e.spire
10		in 1996, I had twenty-ti ree years of experience in the telecommunications industry
11		working for Bell Atlantic Corporation. I held a number of rositions with Bell Atlantic,
12	, * 	and most recently, since 1994, was Director - Financial Systems. From 1991 to 1994, I
13		served as Director - Product Profitability and Transfer Pricing and operated and enhanced
14		a Product Profitability reporting system. I also developed and implemented a Transfer
15		Pricing process for Line of Business financial reporting. From 1987 to 1991, I was the
16		Director - Customer Business Services, responsible for pricing and costing multi-year
17		service contracts in competitive proposals to Bell Atlantic's largest commercial and
18		government customers. From 1972 to 1987, I held a variety of engineering and
19		management positions of increasing responsibility. I received my Bachelor of Science in
20		Electrical Engineering from Virginia Tech in 1972, and my M.B.A. from Virginia
21		Commonwealth University in 1984.
22	Q.	HAVE YOU PREVIOUSLY TESTIFIED BEFORE THIS COMMISSION?
23	Α.	Yes. I testified in e.spire's first arbitration with BellSouth (Docket No. 960916-TP).

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1 Q. HAVE YOU PREVIOUSLY TESTIFIED BEFORE OTHER STATE PUBLIC 2 UTILITY COMMISSIONS?

A. Yes. I have testified before numerous Commissions, including Commissions in the Bei'South, Bell Atlantic, and U S West regions.

5 Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

- A. The purpose of my testimony is to explain the types and functionality of unbundled local
 loops ("ULLs") and other unbundled network elements ("UNEs") e.spire is interested in
 obtaining from BellSouth. During the course of negotiations that led to this arbitration
 proceeding, BellSouth already has agreed to provide some of the UNEs requested.
 However, even wi ere BellSouth agreed to provide UNEs, in some cases, it often failed to
 propose rates, relied on interim rates, proposed rates thⁿ could not have a reasonable
 relation to cost, or proposed to limit the offering in a way that would deny e.spire the
 ability to use the UNE as intended.
- Q. PLEASE SET FORTH THE NETWORK ELEMENTS TO WHICH E.SPIRE HAS
 REQUESTED BELLSOUTH TO PROVIDE UNBUNDLED ACCESS. (ISSUES 1,
 - 3, 12, 20]

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- 17 A. e.spire has requested access from BellSouth to various ULLs, including:
- 2-Wire Analog Voice Grade;
 4-Wire Analog Voice Grade;
 20
 2-Wire ISDN Digital Grade;
 4-Wire DS-1-Compatible;
 22
 2-Wire HDSL-Compatible;
- 2-Wire HDSL-Compatible;
- 2-Wire ADSL-Compatible;

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. 1	 2-Wire ADSI -Equipped; 	
. 2	• 4-Wire HDEL-Equipped;	
3	 56/64 kbps digital grade; 	and the second
4	• DS-3;	
5	• OC-3;	
6	• OC-12; and	
7	• OC-48.	and the second
8	o.spire also has requested unbundi	ed access to Enhanced Extended Links
9	("EELs"), with no limits on the types of lo	pops and transport that can be incorporated into
10 .	an EEL; Dark Fiber loop plant; and a Bit-	Stream Loop UNE.
11	So that e.spire can begin its roll-ou	at of xDSL-based advanced services, e.spire
12	also has requested unbundled access to xE	OSL-compatible (or "clean copper") loops,
13	"loop conditioning", loop conditioning op	erations support systems ("OSS"), and "loop
14	spectrum unbundling".	
15	Where technically feasible, e.spire	also has requested unbundled access to sub-
16	loop elements. These sub-loop elements i	nclude:
17	• the network interface of	levice ("NID");
18	loop concentration equ	ipment inside and outside the central office
19	(including sub-loop co	ncentration equipment and digital loop carriers
20	of all kinds);	
21	feeder plant;	
22	distribution plant;	

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dark fiber in the loop plant; and

network terminating wires.

To ensure access to these sub-loop elements, e.spire also has requested BellSouth to provide access to remote terminals for collocation with and interconnection to equipment located in such remote terminals.

To complement its own switching capabilities, e.spire also has requested unbundled access to local switching, tandem switching and frame relay packet switching, including user-to-network interface ("UNI") and network-to-network interface ("NNI") switch ports.

e.spire also has requested unbundled access to a variety of unbundled transport options. These is clude shared transport and dedicated transport in various capacity levels, including DS-0, DS-1, DS-3, OC-3, OC-12, OC-48, OC-96 and SONET. e.spire also has requested unbundled access to dark fiber transport facilities on which it will supply its own electronics.

e.spire also has requested unbundled access to a host of other network elements,
 including digital cross-connect system ("DCS"), operator services and directory
 assistance, signaling, OSS and databases.

Finally, e.spire has requested unbundled access to a number of UNE
 combinations. These combinations include:

 an unbundled loop combination consisting of a loop, dedicated transport, STPs, signaling link transport, and service control points/databases;

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an unbun led loop/network combination consisting of a loop, shared transport, dedicated transport, STPs, signaling link transport, and service control points/databases;

a switching combination referred to as "Switching Combination #1" which includes a NID, local switching, operator systems, dedicated transport, SS7 message transfer and connection control, signaling link transport, service control points/databases and tandem switching;

a switching combination referred to as "Switching Combination #2" which includes a NID, local switching, shared transport, dedicated tra. sport, SS7 message transfer and connection control, signaling link transport, service control points/databases, and tandem switching;

a switching combination referred to as "Switching Combination #3" which includes a NID, local switching, operator systems, shared transport, dedicated transport, SS7 message transfer and connection control, signaling link transport, service control points/databases, and tandem switching;

a switched data services combination which includes a NID, local switching, shared transport, dedicated transport and tandem switching;
an unbundled loop with interoffice transport combination comprising a loop, cross-connect, and dedicated transport or an entrance facility;
an unbundled element platform without operator services and directory assistance composed of a loop, local switching, shared

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1		trans port, dedicated transport, STPs, signaling link transport, service
2	1 10	control points/databases, and tandem switching; and
3		a frame relay combination consisting of a loop, dedicated transport,
4	-	and frame relay switching.
5	Q.	HAS E.SPIRE PROPOSED DESCRIPTIONS OF THE UNEs THAT IT WISHES
6		TO ACCEPT? [ISSUES 1, 3, 12, 20]
7	Α.	Yes. The technical descriptions are introduced in Attachment 2 of the draft agreement.
8		We ask that the Commission require BellSouth to make available to e.spire now each
9	1	such UNE - at pre-designated TELRIC-based rates.
10	Q.	DOES E.SPIRE H WE A PARTICULAR OBJECTION TO BELLSOUTH'S
11	- a0 -	PROPOSALS RELATING TO LOOP PROVISIONING? [ISSUES 2, 21]
12	Α.	Yes. e.spire believes that BellSouth's proposed intervals are unreasonably lengthy, and
13		its nonrecurring charges ("NRCs) are unreasonably high.
14	Q.	IS PROVISIONING A LOOP A COMPLICATED AND TIME CONSUMING
15	1	UNDERTAKING? [ISSUES 2, 21]
16	A .	No, actually, it is a rather simple task that can be completed in a few minutes or less. To
17		provision a loop, all that is required is that a technician must attach "jumper cables" from
18		BellSouth's point of termination bay ("POT bay") to e.spire's terminating equipment in
19	ج	e.spire's collocation space. (e.spire will provide a demonstration of this task at the
20		hearing in this proceeding.) The loop cutover is analogous to the activity in turning up a
21		BellSouth end user - it is the same function that BellSouth technicians have been
22		performing every day, many times a day, for years. Indeed, BellSouth's own data
23		submitted in support of its second Federal Communications Commission ("FCC")

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Section 271 application for Louisiana suggests that BellSouth can complete coordinated loop cutovers in less than four and a half (41/2) minutes. Despite this, BellSouth 2 apparently bases its cost studies on the presumption that 15 minutes of frame work is 3 4 involved. This assumption, however, cannot be supported by time and motion studies. Ordinarily, running jumper cables to cutover a loop should take roughly two minutes. 5 Q. IS IT IMPORTANT FOR COORDINATED CUTOVERS TO BE PERFORMED 6 WITHIN A CERTAIN PERIOD OF TIME? (ISSUE 21) 7 Yes. It is important that coordinated cutovers be performed as quickly as possible 8 because the interval during which they are performed represents the time the customer is 10 without phone service. Thus, if, as BellSouth claims, it is able to perform coordinated 11 cutovers, on average, in under four and a half $(4\frac{1}{2})$ minutes, that means e.spire's new 12 customers typically experience a period of service outage of that duration while their line(s) are switched from BellSouth to e.spire. 13 HAVE E.SPIRE AND BELLSOUTH AGREED ON A LOOP CUTOVER 14 0. 15 INTERVAL? [ISSUE 21] 16 No. e.spire proposes, and BellSouth refuses, to incorporate terms from its original 17 interconnection agreement with BellSouth regarding loop cutover intervals. Thus, e.spire 18 proposes to renew provisions which call for a five minute cutover interval, penalties in 19 the event that BellSouth misses the target interval, and a 30 minute window during which 20 the five minute cutover must take place. BellSouth has responded with a complicated 21 SL1/SL2 loop proposal which, as best I can tell, is designed to inflate competitors' costs 22 rather than meet their unbundling requests and needs. 23 [Q&A DELETED]

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- **ARE THERE OTHER BELLSOUTH RATES WHICH RAISE AN ISSUE AT** 1 2 LEAST FROM A TECHNICAL STANDPOINT? (ISSUE 2) 3 Yes. For example, BellSouth proposes to charge considerably more for DS-3 and DS-1 cross-connects than for a DS-0 cross connect. Although the circuit equipment itself 4 5 might vary slightly, there is no actual difference in the work that is performed. As is the case in provisioning loops, it is simply a matter of connecting jumper cables from the 6 7 point of termination bay to e.spire's collocated facilities. Thus, a substantial difference in 8 cross-connect NRCs cannot be justified - at least from a technical standpoint. In fact, it 9 appears that BellSouth's cross-connect rates appear to be reverse engineered so that the 10 resulting UNE transport rates begin to approximate BellSouth's subsidy-laden special access tariff rates. S. ch an approach has no technical basis nor, as I understand it, does it 11 12 have any foundation in the 1996 Act. 13 ARE THERE OTHER RATES THAT CAN BE QUESTIONED, AT LEAST Q. 14 FROM A TECHNICAL PERSPECTIVE? [ISSUE 2] 15 Yes. As Mr. Falvey describes in his testimony, the difference between original and first A. 16 NRCs proposed by BellSouth does not appear to consistently reflect the efficiencies 17 realized by BellSouth when a competitive local exchange carrier, such as e.spire, orders
- 19 "paper pushing" or computer entry functions. There also can be time savings in

multiple UNEs. Indeed, there can be dramatic savings in time realized in back office

20 provisioning multiple UNEs pursuant to the same service order.

Q. ARE ANY OF E.SPIRE'S COLLOCATION PROPOSALS TECHNICALLY INFEASIBLE? [ISSUES 7, 9] A. No. e.spire has requested solutions like shared space, small space/small increment, and adjacent collocation to reduce the cost and delay associated with physical collocation with BellSouth. None of these proposals – including adjacent collocation – raise any significant technical obstacles. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?

8 A. Yes, although I do not waive an opportunity, if afforded one by the Commission, to file

9 supplemental direct testimony.