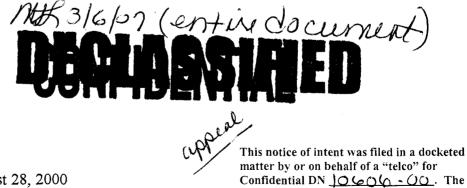
**BEFORE THE FLORIDA PUBLIC** SERVICE COMMISSION **DOCKET NO. 990649-TP** 

SUPPLEMENTAL REBUTTAL TESTIMONY OF **TERRY L. MURRAY ON BEHALF OF BLUESTAR NETWORKS INC.,** COVAD COMMUNICATIONS COMPANY AND **RHYTHMS LINKS INC.** 

# **PROPRIETARY VERSION**



DATED: August 28, 2000

Confidential DN 10606 - 00. The confidential material is in locked storage pending staff advice on handling.

DOCUMENT NUMBER-DATE

10606 AUG 28 B FPSC-RECORDS/REPORTING

#### **TABLE OF CONTENTS**

2 T

**2** 1

I.	INTRODUCTION AND SUMMARY1
	A.BST'S REVISIONS HAVE NOT BROUGHT ITS STUDIES INTO LINE WITH FORWARD- LOOKING ECONOMIC PRINCIPLES.
	B. NOTHING IN BST'S REVISED FILING FUNDAMENTALLY CHANGES MY EARLIER RECOMMENDATIONS TO THIS COMMISSION
П.	BST'S REVISED RECURRING COST STUDIES SUFFER FROM THE SAME DEFECTS AS ITS ORIGINAL FILING
Ш.	BST'S REVISED NONRECURRING CHARGES ARE NOT FORWARD-LOOKING
	A. THE COMMISSION SHOULD REJECT BST'S PROPOSED NONRECURRING CHARGES FOR DSL-CAPABLE LOOPS
	B.BST'S REVISED NONRECURRING COSTS FOR VOICE-GRADE LOOPS FAIL TO REFLECT FORWARD-LOOKING ECONOMIC PRINCIPLES OR EFFICIENT ENGINEERING PRACTICES
	C.BST'S PROPOSED NONRECURRING COSTS FOR UDCS AND ISDN- CAPABLE LOOPS DO NOT REFLECT FORWARD-LOOKING ECONOMIC PRINCIPLES OR EFFICIENT
	PRACTICES
	D.BST CONTINUES TO VASTLY OVERSTATE THE FORWARD-LOOKING COST OF PROVIDING "CONDITIONED" LOOPS
	E. BST'S REVISED NONRECURRING CHARGES FOR ACCESS TO LOOP MAKEUP INFORMATION ARE MORE REASONABLE, BUT STILL INFLATED

#### 1 I. INTRODUCTION AND SUMMARY

11

Please state your name, title and business address. 2 **Q**. My name is Terry L. Murray. I am President of the consulting firm Murray & 3 A. Cratty, LLC. My business address is 227 Palm Drive, Piedmont, California 4 5 94610. Have you previously filed testimony in this proceeding? 6 **Q**. Yes. I filed testimony on both June 1, 2000, and July 31, 2000, in the current 7 A. phase of this proceeding. Exhibit \_\_\_\_\_ (TLM-1) attached to my June 1<sup>st</sup> 8 direct testimony describes my qualifications and relevant experience. 9 Q. What is the purpose of your supplemental rebuttal testimony? 10 BlueStar Networks, Inc. ("BlueStar"), DIECA Communications, Inc. d/b/a 11 A. Covad Communications Company ("Covad") and Rhythms Links Inc. 12 13 ("Rhythms") have asked me to review and respond to the revised direct testimony and cost study presentations made by BellSouth 14 Telecommunications, Inc. ("BST") on August 16 and 18, 2000. My review 15 has focused on any issue raised in BST's revised testimony and cost studies 16 that would have a unique or disproportionate effect on providers of broadband 17 services that use digital subscriber line technology (commonly referred to as 18 DSL-based services). 19

13

- 1A.BST's Revisions Have Not Brought Its Studies into Line with2Forward-Looking Economic Principles.
- 3 Q. Please summarize the conclusions you present in your testimony.

A. After reviewing BST's revised cost studies, I conclude that BST's studies are
still far from complying with forward-looking economic principles. Virtually
all of the criticisms that I presented in my July 31<sup>st</sup> testimony continue to
apply. Indeed, BST's revised studies contain additional sources of concern.

BST's revised cost study and supporting testimony makes one 8 significant improvement. It begins to recognize that BST must provide 9 competitors with mechanized access to loop makeup information at a cost far 10 below the cost for manual provision of this information. BST refuses, 11 however, to carry that assumption through to its logical conclusion. BST 12 continues to assume that it must make inappropriate, irrelevant distinctions 13 among DSL-capable loops. Instead, it should simply provide the data that 14 15 allow competitors to know the characteristics of the loops that are available and to determine the suitability of any given loop. 16

In addition, BST's nonrecurring studies still contain the assumption of significant manual order intervention. After a competitor has selected a DSLcapable loop, BST wants to charge over \$200 for a special series of manual installation activities, even though the selected loop has physical costs identical to a voice loop. The study also violates forward-looking principles by insisting on charging for loop "conditioning" even though BST's own

t 1

. .

1		design standards used to develop the cost for the recurring loop charges do not
2		permit the installation of the load coils and excessive bridged taps that would
3		necessitate loop "conditioning." Worse yet, BST is attempting to levy a
4		"conditioning" additive charge on every DSL-capable loop under 18,000 feet
5		that would over-recover its already inflated "conditioning" costs, thereby
6		causing competitors to subsidize BST's retail xDSL offerings.
7		<b>B.</b> Nothing in BST's Revised Filing Fundamentally Changes My
8		Earlier Recommendations to This Commission.
9	Q.	Has your review of BST's revised cost studies caused you to change any
10		of the recommendations that you made to this Commission in your July
11		31 <sup>st</sup> testimony?
12	A.	No. If anything, BST's revised filing has shown that my criticisms of BST's
13		original filing, and those of Mr. Riolo, were well founded. For example,
14		BST's study revisions have begun to acknowledge that the FCC has required
15		BST to provide nondiscriminatory access to its loop makeup information.
16		BST's attempts to correct its double counting of manual loop qualification
17		costs validates my claim that BST's original nonrecurring cost analyses were
18		in error. In addition, BST's revised estimates of the cost to provide
19		mechanized access to loop makeup data have borne out my earlier contention
20		that BST's original estimates of computer investment were excessive.
21		The basic tenets I presented in my earlier testimony still hold. BST's
22		recurring and nonrecurring charges must be based on forward-looking, Page 3

11

1		efficient costs that reflect a consistent network design. The prices that BST
2		has proposed in this revised filing do not conform to that principle. Instead,
3		BST's revisions to consider mechanized access to loop makeup information
4		constitute an admission that its studies as originally presented were so short-
5		term that they had become outdated in the few months since BST's original
6		filing. That admission, in turn, confirms that BST's basic approach to
7		nonrecurring cost modeling is not forward-looking.
8		Furthermore, BST's revisions seem to be riddled with errors and
9		unsupported assumptions. Therefore, I urge the Commission to adopt the
10		recommendations that Mr. Riolo and I presented in our July 31st testimonies.
11 12	п.	BST'S REVISED RECURRING COST STUDIES SUFFER FROM THE SAME DEFECTS AS ITS ORIGINAL FILING.
	П. Q.	
12		SAME DEFECTS AS ITS ORIGINAL FILING.
12 13		SAME DEFECTS AS ITS ORIGINAL FILING. Do the criticisms you made of BST's original recurring cost study
12 13 14	Q.	SAME DEFECTS AS ITS ORIGINAL FILING. Do the criticisms you made of BST's original recurring cost study continue to apply to its revised recurring cost studies?
12 13 14 15	Q.	SAME DEFECTS AS ITS ORIGINAL FILING. Do the criticisms you made of BST's original recurring cost study continue to apply to its revised recurring cost studies? Yes. Nothing that BST has presented in its revised cost studies ameliorates
12 13 14 15 16	Q.	SAME DEFECTS AS ITS ORIGINAL FILING. Do the criticisms you made of BST's original recurring cost study continue to apply to its revised recurring cost studies? Yes. Nothing that BST has presented in its revised cost studies ameliorates any of the concerns I presented in my July 31 <sup>st</sup> testimony regarding BST's
12 13 14 15 16 17	Q.	SAME DEFECTS AS ITS ORIGINAL FILING. Do the criticisms you made of BST's original recurring cost study continue to apply to its revised recurring cost studies? Yes. Nothing that BST has presented in its revised cost studies ameliorates any of the concerns I presented in my July 31 <sup>st</sup> testimony regarding BST's recurring cost analysis. BST has wrongly continued to use several networks
12 13 14 15 16 17 18	Q.	SAME DEFECTS AS ITS ORIGINAL FILING. Do the criticisms you made of BST's original recurring cost study continue to apply to its revised recurring cost studies? Yes. Nothing that BST has presented in its revised cost studies ameliorates any of the concerns I presented in my July 31 <sup>st</sup> testimony regarding BST's recurring cost analysis. BST has wrongly continued to use several networks to estimate recurring costs for different elements, rather than a single

...

1	Q.	Has BST modified its proposed DSL-capable loop elements?
2	A.	Yes. As I discuss in more detail below, in its revised cost study, BST has
3		developed two options for provisioning each type of DSL-capable loop (other
4		than ISDN/IDSL-capable loops): one that includes manual loop makeup and
5		one that does not. Furthermore, it appears from BST's revised descriptions of
6		loop makeup that BST intends to provide a competitor with information to
7		make a determination for itself whether the facility is qualified for a service
8		[see BST revised cost study, at Section 6, page 67], rather than BST
9		performing loop qualification for the competitor.
10	Q.	How do these modifications affect BST's recurring cost studies for DSL-
11		capable loops?
12	A.	At first glance, it may not appear that these modifications should affect BST's
13		recurring cost studies for DSL-capable loops at all, since the changes were
14		made specifically to nonrecurring cost elements. However, further scrutiny
15		reveals that BST should have revised its recurring cost elements for DSL-
16		capable loops in concert with these modifications.
17		BST has proposed several types of DSL-capable loops in this
18		proceeding (ADSL, HDSL, Unbundled Copper Loop – Short, and Unbundled
19		Copper Loop – Long, not including ISDN). Mr. Riolo and I have both
20		testified that the distinctions among DSL-capable loops that BST proposes are
21		inappropriate. The distinction among DSL-capable loops is surely an artifact
22		of BST's former assumption that it would need to "qualify" a loop, <i>i.e.</i> ,
23		determine that the loop meets certain technical specifications. When BST

, i

1		makes loop makeup data available directly to competitors, as indicated in the
2		revised cost studies, competitors will make their own judgments regarding
3		which loop to choose and what services they can provide over it. Thus, the
4		BST-imposed distinctions among loop types become irrelevant.
5		BST should instead offer a single type of two-wire DSL-capable loop
6		(as well as a single four-wire DSL-capable loop). The prices for the two
7		DSL-capable loops (two-wire and four-wire) should be based on the
8		Commission-adopted prices for a comparable voice grade loop.
9	Q.	In its revised cost study filing, BST has proposed an additional loop
10		element, the "Universal Digital Channel." Do you have any comments
11		on this element?
12	A.	It is difficult to comment on the new "Universal Digital Channel" ("UDC")
13		because BST has provided no description of this element at all. Ms. Caldwell
14		has indicated that:
15		The costs for the UDC are identical to an ISDN loop, but the
16		methods and procedures ("M&Ps") associated with the
17		provisioning process are different. Thus, BellSouth needed an
18		additional element to reflect these different M&Ps.
19		[Caldwell Revised Direct, at 4.]
20		BST has provided no further indication of how the M&Ps for the two
21		elements might differ, nor information on any way in which a UDC differs
22		from an ISDN loop. However, I understand that UDC may be used to provide
23		IDSL services.

\* \*

. .

1	Q.	How should recurring costs be set for the UDC element?
2	A.	Because it appears that there are no cost differences between the ISDN and
3		UDC elements, as Ms. Caldwell indicates, my July 31st critique [at 32-40] of
4		BST's proposed ISDN rates would apply equally to UDCs. In particular,
5		UDC recurring rates should be the same as the recurring rates for Service
6		Level 1 ("SL-1") analog loops, plus an increment to account for the higher
7		cost of an ISDN card as compared to a plain old telephone service ("POTS")
8		card. [See also Riolo Direct and Rebuttal at 53 and 62-63.] The increment
9		should reflect the cost of the card, weighted by the percentage of loops that
10		BST would provision over fiber feeder in its forward-looking network.
11		Furthermore, Mr. Riolo explains in his concurrently filed testimony that, just
12		as with ISDN loops, it is not necessary to "design" UDCs. In fact, Mr. James
13		R. McCracken, one of BST's subject matter experts for the Special Services
14		Installation & Maintenance ("SSI&M") work group, admitted that BST does
15		not "design" ISDN loops in Georgia, for example. [Deposition of James R.
16		McCracken, July 28, 2000, Tr. at 31.]
17	Q.	Is BST's proposed recurring charge for UDCs (and ISDN-capable loops)
	χ.	
18		reasonable?
19	Α.	No. BST has proposed a recurring rate of \$30.01 per month, which is almost
20		\$12 per month, or 66%, more than its proposed rate for an SL-1 loop. This
21		excessive increment over analog prices is driven by BST's inappropriate
22		assumptions regarding the demand for ISDN services. As I explained in my
23		July 31 <sup>st</sup> testimony [at 37-39], BST based its estimate of ISDN costs (and thus Page 7

, ,

1	UDC costs) on its current retail ISDN customers and locations. This
2	approach generates nonsensical results, with widely skewed prices. (In some
3	wire centers, BST's proposed UDC/ISDN prices are significantly lower than
4	its voice-grade prices and in others, UDC/ISDN prices are several times
5	higher than those for the basic SL-1 loop.) Competitors are free to buy any
6	loop as an ISDN-capable loop. Thus, BST should have modeled the cost of
7	ISDN-capable loops based on the characteristics of all loops.
8	In contrast, I estimated that the ISDN/UDC adder would be <b>***BST</b>
9	PROPRIETARY \$1.25 END PROPRIETARY*** per month based on the
10	incremental investment needed for ISDN cards on loops over fiber feeder.
11	[See Murray Direct and Rebuttal at 39-40.] BST's proposed increment is
12	more than nine times as high.
13	Even if the Commission were to accept BST's incorrect contention
14	that UDCs and ISDN-capable loops need to be "designed," the correct price
15	would be <b>***BST PROPRIETARY</b> \$3.56 END PROPRIETARY*** per
16	month over the SL-1 price. This is the average incremental cost for the ISDN
17	line card plus the \$2.31 per month recurring cost that BST calculated for the
18	incremental effort to design loops. BST's proposed increment is more than
19	three times as high.

#### 20 III. BST'S REVISED NONRECURRING CHARGES ARE NOT

21 FORWARD-LOOKING.

DECLASSIFIED

22 Q. Can the Commission rely on BST's revised nonrecurring studies?

. .

. .

~

1	A.	No. It seems that BST's quality control on this filing was limited. The filing
2		appears to be riddled with errors, several of which I discuss below, and
3		unsupported assumptions. For example, BST has increased its dispatch
4		percentage for connecting analog Service Level 1 ("SL-1") loops from 20% to
5		38%, but has neither provided any supporting documentation for the change,
6		nor even bothered to explain the basis for the change at all. This one entirely
7		unjustified change is responsible for an increase in the SL-1 analog
8		nonrecurring charge of 37%.
9	Q.	Do the criticisms you made of BST's original nonrecurring cost study
10		continue to apply to its revised nonrecurring cost studies?
11	A.	Yes, for the most part. BST's revisions to the nonrecurring charges for DSL-
12		capable loops to remove loop qualification charges begins to address one of
13		the concerns I presented in my July 31 <sup>st</sup> testimony. However, BST's proposed
14		nonrecurring charges for those elements remain unreasonably high, well
15		above forward-looking economic costs. The balance of my criticisms
16		regarding BST's nonrecurring cost studies continue to apply. Indeed, BST's
17		revised studies contain additional sources of concern.
18	Q.	Please summarize your criticisms of BST's nonrecurring cost studies.
19	A.	The Commission should reject BST's revised nonrecurring cost analysis for
20		several reasons, including the following:
21		• BST's nonrecurring studies still generally fail to reflect a network that
22		is consistent with its recurring cost analysis.

. .

1		• BST's studies continue to improperly include fieldwork and other
2		activities that BST should have reflected, and probably did already
3		include, in its recurring cost study.
4		• BST's studies incorrectly presume that the company will manually
5		perform a number of basic order processing activities. In particular,
6		BST's assumed "fallout" rates are unsupported and unaccountably
7		high. This was already true in its original studies; BST's revised
8		studies have increased the excessive manual processing assumed in its
9		original studies.
10	0	What shawnes has DET made to its nonresourcing studies in its August
10	Q.	What changes has BST made to its nonrecurring studies in its August
11		16 <sup>th</sup> filing?
12	A.	BST has changed virtually every nonrecurring charge it is proposing.
13		Nonrecurring charges for loop elements, in particular for elements related to
14		DSL-capable loops, have been changed substantially. Two sets of
15		modifications appear to drive the cost changes of concern to BlueStar, Covad
16		and Rhythms. First, BST has modified its provisioning process for DSL-
17		capable loops. Second, BST has modified some of the assumptions and task
18		times underlying the nonrecurring costs for loop elements. I will address
19		several of the affected nonrecurring charges below.
20	Q.	Has BST provided any explanation or justification for the changes in
20	Q٠	
21		assumptions and task times underlying the nonrecurring costs for loop
22		elements?

f 1

1	А.	Very little. For example, Ms. Caldwell states that
2		during the revisions to the xDSL nonrecurring costs, BellSouth
3		reviewed all of the nonrecurring inputs for all types of loops to
4		ensure consistency of work time estimates and the correctness
5		of the underlying assumptions. Several inputs were modified
6		as part of this process.
7		[Caldwell Revised Direct, at 3.]
8		This appears to be the sole explanation that BST provides for changes
9		in task times that affect each of its nonrecurring charges for loop elements.
10		Ms. Caldwell does not even indicate whether BST's review was limited to an
11		effort to "ensure consistency" among the nonrecurring costs reported in this
12		filing, or to maintain consistency with some other outside data. Certainly BST
13		has provided nothing to indicate the basis for resolving conflicts. BST did not
14		even make any effort to identify the specific changes in its study. Worse yet,
15		BST substantially redesigned the format of its studies so that it is extremely
16		tedious to search for those changes.
17		A. The Commission Should Reject BST's Proposed Nonrecurring
17		A. The Commission Should Reject DST's Proposed Nonrecurring
18		Charges for DSL-Capable Loops.
19	Q.	How has BST changed its provisioning process for DSL-capable loops?
20	A.	As I discussed in my July 31 <sup>st</sup> testimony [at 56-58], BST's original cost study
21		inappropriately bundled manual loop qualification costs into the costs to
22		provision each type of DSL-capable loop (other than ISDN). In its revised
		Page 11

cost study, BST has developed two options for provisioning DSL-capable
 loops: one that includes manual loop makeup research and one that does not.
 BST has classified these elements as "with loop makeup" and "without loop
 makeup."

#### 5 Q. Why has BST made this change?

( )

A. BST witness Caldwell cites the FCC's requirement for nondiscriminatory
access to its loop makeup information, which the FCC propounded in its *Third Report and Order and Fourth Further Notice of Proposed Rulemaking* in CC
Docket 96-98 (hereafter "UNE Remand Order"), adopted September 15, 1999
(roughly half a year before BST had to file its original study). [See Caldwell
Revised Direct at 2-3.]

# Q. Does the addition of a DSL-capable loop provisioning option that excludes manual loop makeup eliminate the concerns that you addressed in your earlier testimony?

A. Only in part. Again, I must stress that nonrecurring provisioning charges for
DSL-capable loops should not differ from nonrecurring provisioning changes
for a basic analog loop. As Mr. Riolo explained in his July 31<sup>st</sup> testimony [at
8-12], no engineering difference exists between analog loops and those loops
used to provide DSL services. The removal of the duplicative and
unnecessary loop qualification charges is certainly a step in the right direction.
Unfortunately, BST has not managed to remove loop makeup costs

22 completely from its "without loop makeup" elements. Nor has BST done

1 1

. .

1		anything to eliminate the many other sources of inflated costs in its proposed
2		nonrecurring charges for DSL-capable loops, which Mr. Riolo and I addressed
3		in our July 31 <sup>st</sup> testimonies. For example, BST's proposed nonrecurring
4		charge for an ADSL loop "without loop makeup" is still almost two and a half
5		times its proposed charge for a voice-grade loop.
6		Moreover, while this change helps bring the "without loop makeup"
7		path of BST's new bifurcated nonrecurring charges for DSL-capable loops a
8		step closer to forward-looking cost, it does just the opposite to the "with loop
9		makeup" elements. Indeed, the new "with loop makeup" nonrecurring
10		charges are well over \$300, a level that is certain to discourage competition.
11		Therefore, to the extent that the Commission contemplates allowing BST to
12		implement its proposed rate structure, it is doubly important that the
13		Commission evaluate each line in BST's analysis and give full weight to each
14		issue that parties have raised in this proceeding.
15	Q.	Why do you say that BST has not managed to remove loop makeup costs
16		completely from its "without loop makeup" elements?
17	A.	In the "without loop makeup" elements, BST has included time for such tasks
18		as "OSPE Investigation," "Pull LMU," and "LFACS input of LMU" for some
19		percentage of the time. These items appear to insert loop makeup tasks into
20		the supposedly "without loop makeup" cost results. [BST revised cost study,
21		Fl-xdsl.xls.]

Q. Have you found any other errors in BST's nonrecurring cost studies for
 DSL-capable loops?

Yes. BST's proposed "Disconnect Only" charges inexplicably differ between 3 Α. the "with loop makeup" and "without loop makeup" elements. Upon further 4 investigation. I discovered that BST has inappropriately included nearly an 5 hour for work on "Service Inquiry" activities in the "Disconnect Only" 6 7 charges. For example, BST has included 18 minutes for the task: "Upon completion of job. informs CLEC site is ready for provisioning." I cannot 8 imagine how it could be correct to include this task, which clearly relates to 9 provisioning a loop rather than to disconnecting a line that has been in service, 10 in a disconnect charge. (Indeed, I contend that it is inappropriate to include 11 any such manual work even in the connect charge.) [See BST revised cost 12 study, Fl-xdsl.xls.] 13

14In addition, BST has included time in the "Disconnect Only" charge15for tasks such as "Assigns loop facility," "Design circuit and generates DLR16and WORD document for CLEC and Field," and "CO Field wire circuit at17collocation site." Such tasks clearly do not belong in a disconnect study.18That BST's study still includes tasks that are obviously irrelevant,19even to a non-engineer, is an indication that the overall quality of BST's

- analysis is low. The Commission should reject all of BST's proposed
  "Disconnect Only" rate elements and adopt the more reasonable proposal that
  Mr. Riolo presented in his July 31<sup>st</sup> testimony [at 37].
- 23 Q. What nonrecurring charges should apply for DSL-capable loops?

. .

. .

1	A.	The Commission should reject BST's proposed nonrecurring charges for
2		DSL-capable loops entirely. Nonrecurring charges for DSL-capable loops
3		should not differ significantly from the charges for voice-grade loops.
4		Because BST's proposed charges for voice-grade loops are themselves
5		inflated, as I explain below, the Commission should correct BST's
6		nonrecurring charges for installing all loop types to reflect the tasks and task
7		times identified in Mr. Riolo's July 31 <sup>st</sup> testimony [at 36-42].
8		B. BST's Revised Nonrecurring Costs for Voice-Grade Loops Fail to
9		<b>Reflect Forward-Looking Economic Principles or Efficient</b>
10		Engineering Practices.
÷		
1 1	~	
11	Q.	Does BST's revised nonrecurring cost study for voice-grade loops
11	Q.	Does BST's revised nonrecurring cost study for voice-grade loops comply with forward-looking economic cost principles?
	Q. A.	
12		comply with forward-looking economic cost principles?
12 13		comply with forward-looking economic cost principles? No. BST's original nonrecurring cost estimate for voice-grade loops was
12 13 14		comply with forward-looking economic cost principles? No. BST's original nonrecurring cost estimate for voice-grade loops was already well above efficient, forward-looking costs. BST's revised filing
12 13 14 15		comply with forward-looking economic cost principles? No. BST's original nonrecurring cost estimate for voice-grade loops was already well above efficient, forward-looking costs. BST's revised filing advocates a nonrecurring charge for voice-grade loops that is even higher and
12 13 14 15 16	A.	comply with forward-looking economic cost principles? No. BST's original nonrecurring cost estimate for voice-grade loops was already well above efficient, forward-looking costs. BST's revised filing advocates a nonrecurring charge for voice-grade loops that is even higher and thus further from complying with forward-looking economic cost principles.
12 13 14 15 16 17	A.	<ul> <li>comply with forward-looking economic cost principles?</li> <li>No. BST's original nonrecurring cost estimate for voice-grade loops was already well above efficient, forward-looking costs. BST's revised filing advocates a nonrecurring charge for voice-grade loops that is even higher and thus further from complying with forward-looking economic cost principles.</li> <li>What revisions has BST made to its nonrecurring study for SL-1 voice-</li> </ul>
12 13 14 15 16 17 18	А. <b>Q.</b>	comply with forward-looking economic cost principles? No. BST's original nonrecurring cost estimate for voice-grade loops was already well above efficient, forward-looking costs. BST's revised filing advocates a nonrecurring charge for voice-grade loops that is even higher and thus further from complying with forward-looking economic cost principles. What revisions has BST made to its nonrecurring study for SL-1 voice-grade loops?

. •

• •

1		plant dispatch would be necessary. In addition, BST has added several new
2		tasks to attempt to account for the provision of services over fiber-fed loops,
3		as well as further increasing its already overstated fallout rate assumptions, all
4		without a hint of explanation.
5	0	How have BST's assumptions regarding the percentage of time an
3	Q.	now have by 1's assumptions regarding the percentage of time an
6		outside plant dispatch would be necessary to install voice-grade loops
7		changed?
8	A.	BST has unaccountably increased its assumed dispatch rate for SL-1 loops
9		from 20% to 38%, which is an increase of 90% in the assumed number of
10		dispatches.
*		
11	Q.	Should the Commission accept BST's revised dispatch rate?
12	A.	No. The Commission should reject BST's increased dispatch rate assumption
13		because it is entirely unsupported and unreasonably high. More important, it
14		is inappropriate to include any such fieldwork in the nonrecurring costs.
15	Q.	Why is it inappropriate to include these fieldwork costs in a forward-
15	<u>ب</u>	
16		looking nonrecurring cost study?
17	A.	As I explained in my earlier testimony [at 55-56], BST's recurring cost study
18		should have reflected the fieldwork to connect a loop (and probably did).
19		Thus, competitors are already paying recurring charges for a fully connected
20		loop, and should not have to pay to dispatch a technician to the field to
21		connect that loop. A forward-looking recurring cost analysis includes all of
22		the investment and expense necessary to establish a complete connection from
		Page 16

Page 16

÷

1	its central office main frame to the end user. It would be inappropriate to
2	establish an nonrecurring charge that also includes fieldwork costs for
3	installing the loop.

- Q. Even if it were appropriate to include fieldwork in the loop nonrecurring
  charge, would BST's assumption of a 38% dispatch rate to install a SL-1
  voice-grade loop be acceptable?
- A. No. Even if the Commission were to accept the idea that some fieldwork
  costs should be included in the nonrecurring charge, it should reject BST's
  assumed dispatch rate. Mr. Riolo explains in his testimony that BST's
  dispatch assumption is unreasonably high.
- 11 Q. Has BST provided any justification for its increase in dispatch rate
  12 assumptions for voice-grade loops?

None whatsoever. Ms. Caldwell's testimony merely notes that the voice-13 A. grade loop nonrecurring costs "increased mainly as a result of an increase in 14 the dispatch rate," [Caldwell Revised Direct, at 6] with no word of 15 16 justification. (BST has also increased its assumed dispatch rate for SL-2 loops from 20% to 100% with no explanation or justification.) Nor can I find 17 anything in BST's revised cost study documentation concerning this change. 18 Because BST contends that it has provided parties with "all work papers, cost 19 models, and supporting documentation" as required by the Stipulation of 20 Certain Issues and Schedule of Events (filed December 7, 1999, in this 21

. I

docket), I can only assume that BST has no documentation or support for
 these changes.

3	Q.	Has BST correctly accounted for the provision of loops over Digital
4		Loop Carrier/fiber-feeder in its nonrecurring cost study revisions?
5	A.	No. Apparently recognizing the fact that it had failed to consider the
6		provision of unbundled loops over fiber feeder in its original study, BST has
7		added three new work steps into its analysis that are concerned with obtaining
8		and placing plug-ins in the Digital Loop Carrier ("DLC") system. Again, the
9		inclusion of these work steps in nonrecurring costs is fundamentally improper,
10		because the placement of the necessary electronics is already part of the BST
11		recurring cost calculation. Moreover, BST's notion that it should add costs
12		for DLC plug-in cards but not reflect the provisioning savings obtainable from
13		current generation DLC systems, such as remote configuration of loops which
14		reduces the requirement for dispatch — the opposite of BST's other change —
15		is further proof that the BST analysis is not forward-looking.

16 Q. Have you found any other problems with BST's estimate of its

17 nonrecurring costs for voice-grade loops?

18 A. Yes. Some of the new study inputs simply do not make sense absent further
19 explanation. For example, in the new "Network Plug-In Administration"
20 tasks that it shows on the "Inputs Engineering" sheet of its "FL-2W"

- 21 spreadsheet, BST includes the tasks "Planner orders plug-in when not in
- 22 stock" and "Clerical functions in connection with handling of plug-in order."

. .

1		Because the time for clerical functions is explicitly tied to handling plug-in
2		orders, it would seem that the occurrence of that task should match the
3		occurrence of the time that the Planners place such orders. That is
4		inexplicably not the case in the new BST study. In fact, it almost appears as if
5		the occurrence calculation is set as if the tasks are mutually exclusive. Given
6		the limited information that BST has provided, it is not possible even to
7		understand what relationship is supposed to exist between these tasks or how
8		either is triggered.
9		In addition, BST's estimates of the "Disconnect Only" charges for
10		voice-grade loops suffer from some of the same problems as its estimate of
11		the "Disconnect Only" charges for DSL-capable loops. Specifically, the
12		"Disconnect Only" charge includes tasks that clearly do not belong in a
13		disconnect study. [See BST revised cost study, FL-2W.xls.]
14	Q.	How did the fallout rate assumptions change in BST's new analysis?
15	A.	Without support, BST has increased the fallout rate assigned to the Address
16	2 5.	and Facility Inventory Group ("AFIG") from 5% to 30%. [BST revised cost
10		study, FL-2W.xls.] As I showed in my July 31 <sup>st</sup> testimony [at 58-60], BST's
18		fallout rate assumption across all tasks was already over 50%. With this
19		additional increase, BST's study now assumes that three out of four orders
20		will have some sort of fallout. This low level of efficiency is entirely
21		unacceptable in a forward-looking cost study. Furthermore, BST's own
22		outside plant engineering expert, Mr. Michael K. Zitzmann, has agreed that

. .

1		"most of the time the SL-1 requests flow-through without manual
2		intervention." [Deposition of Michael K. Zitzmann, July 20, 2000, Tr. at 39.]
3	Q.	What should the Commission adopt as the forward-looking nonrecurring
4		charge for voice-grade loops?
5	A.	The Commission cannot rely on BST's nonrecurring cost study because it
6		contains numerous errors and unsupported assumptions. The Commission
7		should adopt the nonrecurring charges presented in Mr. Riolo's July 31st
8		testimony [at 36-37].
9		C. BST's Proposed Nonrecurring Costs for UDCs and ISDN-
10		Capable Loops Do Not Reflect Forward-Looking Economic
11		Principles or Efficient Practices
11		
11 12	Q.	Principles or Efficient Practices Does BST's proposed nonrecurring cost study for the UDC and ISDN
	Q.	
12	<b>Q.</b> A.	Does BST's proposed nonrecurring cost study for the UDC and ISDN
12 13		Does BST's proposed nonrecurring cost study for the UDC and ISDN elements comply with forward-looking economic cost principles?
12 13 14		Does BST's proposed nonrecurring cost study for the UDC and ISDN elements comply with forward-looking economic cost principles? No. At \$238.33, BST's proposed nonrecurring charge for UDC/ISDN-
12 13 14 15		Does BST's proposed nonrecurring cost study for the UDC and ISDN elements comply with forward-looking economic cost principles? No. At \$238.33, BST's proposed nonrecurring charge for UDC/ISDN- capable loops is almost three times its already inflated nonrecurring charge for
12 13 14 15 16		Does BST's proposed nonrecurring cost study for the UDC and ISDN elements comply with forward-looking economic cost principles? No. At \$238.33, BST's proposed nonrecurring charge for UDC/ISDN- capable loops is almost three times its already inflated nonrecurring charge for voice-grade loops. BST's original nonrecurring cost estimate for ISDN-
12 13 14 15 16 17		Does BST's proposed nonrecurring cost study for the UDC and ISDN elements comply with forward-looking economic cost principles? No. At \$238.33, BST's proposed nonrecurring charge for UDC/ISDN- capable loops is almost three times its already inflated nonrecurring charge for voice-grade loops. BST's original nonrecurring cost estimate for ISDN- capable loops was already well above efficient, forward-looking costs, as Mr.
12 13 14 15 16 17 18		Does BST's proposed nonrecurring cost study for the UDC and ISDN elements comply with forward-looking economic cost principles? No. At \$238.33, BST's proposed nonrecurring charge for UDC/ISDN- capable loops is almost three times its already inflated nonrecurring charge for voice-grade loops. BST's original nonrecurring cost estimate for ISDN- capable loops was already well above efficient, forward-looking costs, as Mr. Riolo discussed in his July 31 <sup>st</sup> testimony [at 37-42]. BST's revised filing

Does BST's proposed UDC/ISDN nonrecurring cost study suffer from 1 **Q.** some of the same problems as you identified in BST's revised study for 2 voice-grade loops? 3 Yes. For example, BST has added the same inappropriate work steps 4 A. concerned with obtaining and placing plug-ins in the DLC system that I 5 discussed for voice-grade loops, while still failing to reflect the provisioning 6 7 savings obtainable from current generation DLC systems, such as remote 8 configuration of loops. In addition, those new study inputs have the same

•

9 perplexing occurrence factors that I discussed above. [See BST revised cost
10 study, FL DIG.xls.]

# 11 Q. What fallout rate assumptions did BST assume in its revised ISDN12 analysis?

13 BST has assumed a fallout rate of 67% for the Service Advocacy Center A. ("SAC") work group. This assumption, along with reported fallout rates of 14 30% for the AFIG and 15% for the Circuit Provisioning Group ("CPG") and 15 16 the other fallout assumptions that are buried within BST's calculations, means that virtually every order will experience process breakdowns somewhere in 17 the provisioning process. Such high failure rates are plainly out of line for an 18 efficient, forward-looking process. Once again, BST has provided no support 19 or justification of these fallout rates. For example, Mr. Zitzmann, BST's 20 21 subject matter expert for the SAC, did not even know what the fallout rate assumption was for ISDN. [See Deposition of Michael K. Zitzmann, July 20, 22 2000, Tr. at 42.] The Commission should order BST to remove those costs 23

	Supp	lemental Rebuttal Testimony of Terry L. Murray
1		from its nonrecurring cost analysis if the Commission makes any use of those
2		(fundamentally incorrect) studies.
3	Q.	What should the Commission adopt as the forward-looking nonrecurring
4		charge for UDCs and ISDN-capable loops?
5	A.	The Commission should adopt nonrecurring charges for UDCs and ISDN-
6		capable loops based on the efficient engineering practices that Mr. Riolo
7		presented in his July 31 <sup>st</sup> testimony [at 37-42].
8		D. BST Continues to Vastly Overstate the Forward-Looking Cost of
9		Providing "Conditioned" Loops.
÷		
10	Q.	How has BST revised its "Loop Conditioning" (or "Unbundled Loop
11		Modification") elements?
12	A.	In addition to lowering slightly its proposed nonrecurring charges for each of
13		its former loop "conditioning" elements, BST has proposed two additional
14		"conditioning" elements: "2W/4W Copper Distribution Load Coil/Equipment
15		Removal" (A.17.5) and "2W/4W Copper Distribution Bridged Tap Removal"
16		(A.17.6).
17	Q.	Please explain why BST's revised estimates for loop "conditioning" have
18		decreased slightly.
19	A.	For the most part, BST's tasks and task times for "conditioning" activities
20		remain unchanged from its original cost study filing. However, BST has
21		made some adjustments to the manual "Service Inquiry" activities included in
		Page 22

, e , ,

, ۱

1		the Unbundled Loop Modification elements. In particular, BST has
2		apparently assumed that it would achieve some efficiencies in these manual
3		tasks when loop modification is ordered at the same time as the loop itself,
4		and when load coil removal is ordered at the same time as bridged tap
5		removal. BST has assumed, for example, that load coil removal and bridged
6		tap removal will be ordered simultaneously one third of the time. In addition,
7		it appears that BST has assumed that loop "conditioning" will be ordered
8		separately from the loop itself 20% of the time. [See BST revised cost study,
9		at Section 6, page 36.]
10	Q.	Do BST's revised "conditioning" charges, with these adjustments to the
11		"Service Inquiry" manual activities, represent forward-looking costs?
12	Α.	No. Although BST's acknowledgement of the savings in manual labor that
13		would be achieved for orders that are placed at the same time is a slight
14		improvement over its original proposals, BST's revised rates are far from
15		forward-looking. As I explained at length in my July 31 <sup>st</sup> testimony [at 77-
16		88], nonrecurring "conditioning" charges would not be consistent with
17		forward-looking economic costs at all. However, if the Commission were to
18		decide to allow such charges, they should at the very least be based on
19		efficient practices. Therefore, it is inappropriate to include these manual
20		"Service Inquiry" activities, even at the lower level that BST now proposes.
21	Q.	Why is it inappropriate to include manual "Service Inquiry" activities in

22 the costs for loop "conditioning"?

Ť

, ,

r 1

1	A.	My original understanding of the manual "Service Inquiry" activities was that
2		they related entirely to the manual loop qualification process that BST
3		inappropriately bundled into the cost to provision DSL-capable loops, as well
4		as the loop qualification and "conditioning" elements. BST has now correctly
5		removed most of the manual "Service Inquiry" activities from provisioning of
6		a DSL-capable loop "without loop makeup." (It follows that, to the extent
7		that these manual activities are related to manual loop qualification, they
8		should obviously be removed from the "conditioning" costs as well. It makes
9		no sense for BST to replicate manually a process that the competitor ordering
10		the loop has already accomplished electronically.)
11		What is clear, however, is that the "Service Inquiry" activities that
12		BST has included here represent manual ordering processes that are in no way
13		forward-looking. BST's revised cost study indicates that "[t]he ordering
14		procedures for loop conditioning are to be handled manually through the
15		Service Inquiry process." [BST revised cost study, at Section 6, page 36,
16		emphasis added.] A forward-looking, long-run cost study should not assume
17		substantial manual order intervention, given the current advanced state of
18		automation in the local exchange network and related Operations Support
19		Systems ("OSS"). In fact, Ms. Nancy Pauline Murphy, BST's subject matter
20		expert for the Local Carrier Service Center ("LSCS"), conceded that BST can
21		accept mechanized orders [Deposition of Nancy Pauline Murphy, July
22		28,2000, Tr. at 26-27], and further admitted that, if orders were automated,

Page 24

÷

Supplemental Rebuttal Testimony of Terry L. Murray 1 they would completely bypass her group [Tr. at 42-43]. These manual tasks have no place in a forward-looking environment. 2 Is inclusion of manual "Service Inquiry" activities the only problem with 3 Q. **BST's proposed "conditioning" charges?** 4 No. BST's revised "conditioning" charges have the same problems that Mr. 5 А. Riolo and I identified in our July testimonies. Namely, BST inflates its 6 7 "conditioning" costs by understating the number of loops that should be "conditioned" whenever a technician is dispatched and by overstating the time 8 9 it would take to accomplish the "conditioning" tasks. In addition, BST includes time such tasks as "OSPC sets up manhole" 10 in its estimate of the costs of removing load coils from an *aerial/buried* 11 application. [BST revised cost study, FL-ULM.xls.] 12 Has BST's revised its "Unbundled Loop Modification Additive"? 13 Q. 14 A. BST has revised its "Unbundled Loop Modification Additive" downward substantially from \$120.98 per loop to \$57.99. However, even given this 15 sizeable decline, this proposed charge would still potentially over-compensate 16 even BST's inflated estimate of its "conditioning" costs. The over-recovery 17 of "conditioning" costs through this charge means that competitors would in 18 effect be subsidizing BST's retail xDSL offerings. 19 How does the "Additive" charge subsidize BST's retail xDSL offerings? 20 Q. If BST is allowed to impose this inappropriate nonrecurring charge, 21 A. competitors will pay to condition loops that BST will use. 22

. . .

. .

1	For example, assume that BST removes load coils from ten pairs at
2	once as a result of an order from a competitor. The competitor pays the load
3	coil removal fee as well as the "Additive" for each pair ordered: \$65.40 +
4	57.99 = 125.39 or 19% of BST's supposed cost to "condition" those ten
5	pairs. Suppose that, as BST itself assumes, the competitor typically orders
6	two pairs. Then the competitor would pay $2 \times 125.39 = 250.78$ or $38\%$ of
7	BST's supposed cost to "condition" the ten pairs. BST has assumed that it
8	will use four of the remaining pairs and that the final four pairs may or may
9	not be ordered by a competitor at a later date. BST's further assumes that
10	about 40% of DSL-capable loops will need to be conditioned. Thus, three
11	loops are ordered that do not need to be conditioned for every two that do.
12	Given BST's methodology these three loops each pay the "Additive": \$57.99
13	x 3 = $173.97$ or 27% of BST's supposed cost to "condition" the original ten
14	pairs. (Thus far, for the two "conditioned" loops a competitor ordered, plus
15	the three loops that did not require "conditioning," BST has recovered 64% of
16	its supposed cost, leaving \$229.25 of the original cost.)
17	Now, further suppose that at some point the final four pairs do get
18	ordered by competitors. Then the competitor(s) would have to pay the
19	"Additive": $4 \times 57.33 = 229.32$ or 35% of BST supposed cost to
20	"condition" the original ten pairs. Recall that BST plans to use four of the
21	original ten pairs and therefore has claimed that it will absorb the cost of
22	"conditioning" them. In this scenario, however, competitors have now paid a
23	total of \$250.78 + \$173.97 + \$229.32 = \$654.07 or <i>100%</i> of BST's costs,

÷ 1

1	leaving no costs for BST to absorb. BST pays nothing for its four
2	"conditioned" pairs, because the competitors have paid the entire cost for
3	"conditioning" ten lines including the four that BST presumes it will use for
4	its own retail service, giving BST a "free ride." Furthermore, BST may also
5	collect the "Additive" on other DSL-capable loops that never required
6	"conditioning," which creates further potential for over-recovery.
7	Even if the last four pairs are never ordered, BST still over-recovers its
8	supposed "conditioning" costs. The cost BST claims it will absorb for the
9	four pairs it presumes it will use would be: $4 \times 65.40 = 261.60$ or $40\%$ of
10	BST's supposed cost to "condition" the original ten pairs. Thus, BST
11	recovers \$250.78 + \$173.97 + \$261.60 = \$686.35 or 105% of its original \$654
12	total cost. Even in this conservative scenario, competitors subsidize BST use
13	of those four loops.
14	Moreover, if BST is incorrect in its assumption that about 40% of
15	DSL-capable loops will require "conditioning," there is even greater potential
16	for over-recovery. Keep in mind that the "Additive" applies only to loops
17	under 18,000 feet, which do not need and should not have load coils at all.
18	BST is suggesting that 40% of its loops do not meet engineering standards
19	adopted twenty years ago. If the actual percentage of loops that need to be
20	"conditioned" is much lower than BST's assumption (which it should be if
21	BST has been modernizing its plant) BST's calculation will over-recover costs
22	further. Suppose, for example, that in actual fact only 10% of loops require
23	conditioning. Then for every two pairs that need "conditioning," eighteen

Page 27

2

1		pairs do not. In this case, BST would recover from competitors \$1294.60
2		(\$250.78 + (18 x \$57.99)) or almost <i>twice</i> its already inflated costs! In
3		addition to which, BST would have paid nothing for the four "conditioned"
4		pairs it will use.
5	Q.	Do the nonrecurring charges that BST has proposed for the two
6		additional distribution "conditioning" elements comply with forward-
7		looking economic principles?
8	A.	No. BST has inflated the cost for these elements by assuming that distribution
9		"conditioning" jobs would be performed on only one pair at a time. This
10		greatly understates the number of loops that should be "conditioned"
11		whenever a technician is dispatched. Mr. Riolo explains in his concurrently
12		filed testimony that a one-at-a-time approach is extremely inefficient. In fact,
13		BST itself has assumed that most "conditioning" jobs (i.e., bridged tap
14		removal and load coil removal on loops under 18,000 feet) would be
15		undertaken on ten pairs at a time. This strange dichotomy leads to the
16		perplexing situation in which conditioning a <i>portion</i> of the loop is far more
17		expensive than conditioning the loop as a whole. In addition, as with the other
18		"conditioning" elements, BST appears to have overstated the time it would
19		take to accomplish the "conditioning" tasks. Mr. Riolo explained this
20		problem in his July 31 <sup>st</sup> testimony [at 81-97]. Mr. Riolo provides more
21		reasonable task time estimates corresponding to BST's new elements in his
22		concurrently filed testimony.

, 1

1		E. BST's Revised Nonrecurring Charges for Access to Loop Makeup
2		Information Are More Reasonable, But Still Inflated.
3	Q.	How has BST revised its "Loop Qualification" elements?
4	A.	BST has revised its former "Loop Qualification" elements (J.3.1 and J.3.3) in
5		several ways. First, BST has renamed these elements as "Loop Makeup"
6		("LMU"). Second, BST has clarified that its proposed "Mechanized LMU"
7		element is not related to its Loop Qualification System (also known as
8		"Loopy"), which BST uses to determine whether a customer location qualifies
9		for BellSouth's retail ADSL offering based on BellSouth's technical
10		parameters. Third, the former element "Service Inquiry w/ Loop Makeup"
11		(J.3.3) has been restructured into two elements: "Manual Loop Makeup w/o
12		Facility Reservation Number" (element J.3.3), which does not include the
13		reservation of a loop facility, and "Manual Loop Makeup w/ Facility
14		Reservation Number" (element J.3.4), which does include the reservation of a
15		loop facility. [See BST revised cost study, at Section 6, page 67.]
16	Q.	Do you have comments regarding these revisions to the Loop Makeup
17		elements?
18	A.	Yes. First, I believe that BST's clarification regarding mechanized loop
19		makeup is an important one. Both Mr. Riolo and I explained in our July 31 <sup>st</sup>
20		testimonies that it is essential that competitors have access to detailed loop
21		makeup information so that they can make their own independent judgment
22		regarding the suitability of a loop. As I have already explained, BST has Page 29

,

1		finally acknowledged that the FCC has required such access and has at least
2		taken some steps to remove the manual loop makeup process from DSL-
3		capable loop provisioning. In its revised description of loop makeup
4		elements, BST explains that it intends loop makeup to provide "sufficient
5		information on the loop make-up of a facility at a particular service location
6		so that the CLEC can make a determination for itself whether the facility is
7		qualified for the service that it wishes to provision over that facility." [BST
8		revised cost study, at Section 6, page 67.] Assuming that BST's definition of
9		"sufficient information" is correct, this is just what competitors require.
10		However, I have an additional concern regarding reservation of loop
11		facilities that is raised by BST's description of its manual loop makeup
12		elements, as well as its description of its new DSL-capable loop provisioning
13		elements.
13 14	Q.	elements. What concern do you have regarding reservation of loop facilities?
	<b>Q.</b> A.	
14		What concern do you have regarding reservation of loop facilities?
14 15		What concern do you have regarding reservation of loop facilities? Obviously, access to detailed loop makeup information about a particular loop
14 15 16		What concern do you have regarding reservation of loop facilities? Obviously, access to detailed loop makeup information about a particular loop is of little use if a competitor cannot subsequently purchase that precise loop.
14 15 16 17		What concern do you have regarding reservation of loop facilities? Obviously, access to detailed loop makeup information about a particular loop is of little use if a competitor cannot subsequently purchase that precise loop. Nor would it be acceptable for the loop facilities to change after the loop had
14 15 16 17 18		What concern do you have regarding reservation of loop facilities? Obviously, access to detailed loop makeup information about a particular loop is of little use if a competitor cannot subsequently purchase that precise loop. Nor would it be acceptable for the loop facilities to change after the loop had been provisioned (if, for example, BST were to do a line and station transfer
14 15 16 17 18 19		What concern do you have regarding reservation of loop facilities? Obviously, access to detailed loop makeup information about a particular loop is of little use if a competitor cannot subsequently purchase that precise loop. Nor would it be acceptable for the loop facilities to change after the loop had been provisioned (if, for example, BST were to do a line and station transfer for reasons of its own), because the new facilities might no longer support the
14 15 16 17 18 19 20		What concern do you have regarding reservation of loop facilities? Obviously, access to detailed loop makeup information about a particular loop is of little use if a competitor cannot subsequently purchase that precise loop. Nor would it be acceptable for the loop facilities to change after the loop had been provisioned (if, for example, BST were to do a line and station transfer for reasons of its own), because the new facilities might no longer support the services that a competitor had promised its customer. Therefore, it is critical

۰. I

.

. · ·

1		makeup" also include reservation of loop facilities. However, the DSL-
2		capable loop provisioning options "without loop makeup" do not appear to
3		include loop facility reservation. [See BST revised cost study, at Section 6,
4		page 25.] Moreover, BST's description of its mechanized loop makeup option
5		does not mention facility reservation. [See BST revised cost study, at Section
6		6, pages 67-68.]
7		Thus, it is not clear that a competitor using mechanized loop makeup
8		would have the option to reserve loop facilities. It may be that BST does
9		contemplate that loop reservation would be accomplished through the
10		mechanized loop makeup process. For example, BST has stated:
11		A loop without a loop make-up is ordered when either a
12		manual or mechanized loop make-up with reservation is
13		ordered prior to ordering the loop.
14		[BST revised cost study, at Section 6, page 25, emphasis added] However,
15		that is not clear, and it needs to be. Mechanized access to loop makeup
16		information must also enable the competitor to reserve the selected loop
17		facilities.
18	Q.	What charges is BST now proposing for access to loop makeup
10	v	what charges is bot now proposing for access to roop makeup
19		information?
20	А.	BST has proposed the following charges for access to loop makeup
21		information:
22		• a per-use charge of \$0.69 for mechanized access to loop makeup
23		information;
		D 01

۰.

÷

1		• a nonrecurring charge of \$132.82 for manual loop makeup without
2		facility reservation; and
3		• a nonrecurring charge of \$138.61 for manual loop qualification with
4		facility reservation.
5	Q.	Is BST's revised per-use charge for mechanized access to loop makeup
6		data reasonable?
7	A.	No. As I explained in my July 31 <sup>st</sup> testimony [at 101-105], the investment that
8		BST seeks to recover through this per-use charge for access to loop makeup
9		information is for an OSS electronic interface. The Florida Commission has
10		already correctly determined that incumbents should bear their own cost of
11		developing and implementing such OSS interfaces, as competitors do. [See
12		Order No. PSC-96-1579-FOF-TP, at 87.]
13		Furthermore, although BST's revised estimate of the cost to provide
14		mechanized access to loop makeup represents a sizeable decrease from its
15		original estimate, I believe that BST's proposed charge continues to be
16		inflated. Indeed, BST's revision has served to support my contention that
17		BST's original estimates of the computer investment needed to make
18		mechanized loop makeup possible were quite excessive.
19	Q.	How do BST's revised estimates show that its original estimates of
20		computer investment were excessive?
21	A.	BST's revised proposal of \$0.69 per use is 36% below its original proposal of
22		\$1.08 per use. This drop results from adjustments to BST's estimate of the

Page 32

.

, 1

1		computer investment that will be necessary to provide such mechanized
2		access. Inspection of BST's current estimate of computer investment bears
3		out my contention that its earlier estimate was vastly inflated. For example,
4		BST's estimate for midrange computer hardware investment is now only
5		about 10% of its former estimate. Examples of the adjustments BST has made
6		include: DECLASSIFIED
7		*** BST PROPRIETARY
8		• \$640 thousand (rather than \$6.1 million) investment in "Midrange
9		Computer,"
10		• \$6 thousand (rather than \$1.2 million) investment for "EDS Initial
11		Installation,"
12		• \$237 thousand (rather than \$2.2 million) in right to use fees for "HP &
13		Third Party Server Software,"
14		• \$1.9 million (rather than \$3.8 million) for "Telcordia Application
15		Software" over 2000-2002, and
16		• \$430 thousand (rather than \$2.6 million) for "Hardware Operations &
17		Maintenance over 2000 – 2002."
18		[BST revised cost study, FLLQDB.XLS, Input and WP3 sheets.] END
19		PROPRIETARY ***
20	Q.	Why does BST's proposed per-use charge continue to be excessive even
21		with these adjustments?
22	A.	BST's revised estimate is certainly more reasonable than its first effort. But,
23		even if one accepted the idea that competitors should be partially responsible Page 33

2

.

1		for investment in BST's OSS investment, this estimate still seems to be
2		inflated. For example, BST's estimate still includes a *** BST
3		<b>PROPRIETARY</b> \$14.1 million <b>END PROPRIETARY</b> *** investment in
4		computer equipment, third party software and right to use fees, and program
5		development fees, and <b>*** BST PROPRIETARY</b> \$6.7 million END
6		<b>PROPRIETARY</b> *** in consulting services and third party software support
7		expenses for 2000-2002. [BST revised cost study, FLLQDB.XLS, Input,
8		WP1 and WP3 sheets.] The Commission should reject such apparently
9		unreasonable inputs until BST has supplied substantive support for those
10		inputs and parties have had an opportunity to comment on that support.
, 11	Q.	What is an appropriate price for access to loop makeup information,
12		based on the cost of forward-looking, efficient electronic access to that
12 13		based on the cost of forward-looking, efficient electronic access to that information?
	A.	
13	A.	information?
13 14	A.	information? As I explained in my July 31 <sup>st</sup> testimony [at 99-100], the best estimate of the
13 14 15	A.	information? As I explained in my July 31 <sup>st</sup> testimony [at 99-100], the best estimate of the efficient, long-run cost for the electronic provision of loop makeup
13 14 15 16	A.	information? As I explained in my July 31 <sup>st</sup> testimony [at 99-100], the best estimate of the efficient, long-run cost for the electronic provision of loop makeup information, which new entrants can in turn use to perform their own loop
13 14 15 16 17	А. <b>Q.</b>	information? As I explained in my July 31 <sup>st</sup> testimony [at 99-100], the best estimate of the efficient, long-run cost for the electronic provision of loop makeup information, which new entrants can in turn use to perform their own loop qualification assessment, is \$0. I recommend that the Commission adopt a
13 14 15 16 17 18		information? As I explained in my July 31 <sup>st</sup> testimony [at 99-100], the best estimate of the efficient, long-run cost for the electronic provision of loop makeup information, which new entrants can in turn use to perform their own loop qualification assessment, is \$0. I recommend that the Commission adopt a price of \$0 for mechanized loop makeup.
13 14 15 16 17 18 19		<ul> <li>information?</li> <li>As I explained in my July 31<sup>st</sup> testimony [at 99-100], the best estimate of the efficient, long-run cost for the electronic provision of loop makeup information, which new entrants can in turn use to perform their own loop qualification assessment, is \$0. I recommend that the Commission adopt a price of \$0 for mechanized loop makeup.</li> <li>BST has proposed charges for manual loop makeup. When should</li> </ul>



1	such mechanized access. Moreover, Mr. Riolo explained in his July 31 <sup>st</sup>
2	testimony [at 45-46] that BST should have most, if not all, of the information
3	available electronically. Therefore, if a competitor is prepared to use the BST
4	electronic interface, the mechanized charge should apply — regardless of
5	whether BST must actually provide manual research to obtain the necessary
6	data. Otherwise, BST will no longer have an incentive to make mechanized
7	access available in a timely fashion. A manual loop makeup charge should
8	only apply if a competitor opts not to develop its own capacity to use an
9	available mechanized system, after BST has made electronic access
10	commercially available.
11	BST's manual loop makeup process continues to include inefficient
12	and unnecessary tasks. Thus, the Commission should adjust the cost of this
13	optional manual loop makeup element to match the price for an efficient
14	process, as presented in my July 31 <sup>st</sup> testimony [at 104].

15 Q. Does that conclude your testimony at this time?

16 A. Yes, it does.

ι, γ