1	and only became aware or it as a result of a self-initiated check of the
2	CostQuest website.
3	REDACTED
4	Fourth, after the February 16, 2004 Commission Order, BellSouth finally
5	allowed Sprint access to an open, electronic version of the BACE Model at a
6	BellSouth location.
7	A. Switching Investment
8	
9	Q. Has Sprint analyzed the Switching investments generated by the
10	"corrected" January 22, 2004 version of the BACE Model?
11	A. Yes. This analysis is summarized on Exhibit KWD-13. Row 10 represents
12	annual investment in switching equipment from the BellSouth "corrected"
13	January 22, 2004 filing. Row 11 shows that the average investment per line
14	over years 2 – 10 ranges from *** \$ 100 to \$ 100 ***. Row 13 shows that
15	Sprint's average switching investment per line is *** \$ *** as approved
16	in Docket No. 990649-TP. Thus the BACE Model understates switching
17	investment in years 2 – 10 by a range of *** 6% to 6% *** (Row 14).
18	
19	Q. Is this reasonable?
20	A. No. The BACE Model switching investment per line for a start-up CLEC is
21	severely understated even when compared to a mid-sized ILEC such as
22	Sprint. A start-up CLEC without Sprint's economies of scale intuitively would
23	have even higher per line costs.
24	

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1		Specifically, the CLEC modeled by the BACE Model has one switch per
2		LATA. The CLEC has *** *** switches in Florida, while BellSouth has
3		*** switches. The overwhelming volume of BellSouth's ***
4		switches compared to the CLEC's *** clearly suggests BellSouth's
5		use of their internal vendor cost to estimate the CLEC's cost is not
6		reasonable.
7		
8		B. DLC Investment
9		
10	Q.	Has Sprint analyzed the DLC (Digital Loop Carrier) investments
11		generated by the "corrected" January 22, 2004 version of the BACE
12		Model?
13	A.	Yes. This analysis is also summarized on Exhibit KWD-13. Row 21
14		represents annual investment in DLC equipment from the BellSouth
15		"corrected" January 22, 2004 filing. Row 22 shows that the average
16		investment per line over the ten years ranges from *** \$ 100 to \$
17		Row 24 shows that Sprint's Commission-approved average DLC investment
18		per line was *** \$ *** in Docket No. 990649-TP. Thus the BACE
19		Model understates DLC investment by a range of *** % to % *** over
20		the ten year period (Row 25).
21	,	¢.
22	Q.	Is the BACE Model DLC investment per line reasonable?
23	A.	No. The BACE Model DLC investment per line for a start-up CLEC is
24		severely understated even when compared to a mid-sized ILEC such as

* 1 · 1

1	S	sprint. A start-up CLEC without Sprint's economies of scale would have even
2	h	igher per line costs.
3		
4	S	specifically, the CLEC modeled by the BACE Model has approximately ***
5		*** DLCs in Florida, while BellSouth has approximately 4,200 DLCs.
6	. (8	Sprint – Florida has approximately 1,500 DLCs. Since BellSouth – Florida
7	h	as about 2.8 times the number of switched access lines in Florida as Sprint,
8	а	reasonable estimate of the number of BellSouth DLCs is approximately
9	4	,200.) Thus the dramatically larger number of DLCs in BellSouth's network
10	V	ersus the start-up CLEC modeled in the BACE Model again shows
11	В	ellSouth's use of their internal vendor cost to be unreasonable.
12		
13		C. Operating Support System (OSS) Costs
14		
15	Q. H	las your on-site review of the BACE Model resulted in any other
16	m	naterial understatements?
17		
18	A. Y	es. The outcome of the on-site review of the BACE Model indicates that
19	C	osts related to both Operating Support Systems (OSS) and Network and
20	G	Seneral Support Assets are also severely understated.
21	,	
22	Q. P	lease explain the understatement of Operating Support Systems (OSS)
23	C	osts.
24		

1	A. As defined by the BACE Model, the cost element labeled "OSSStartup"
2	theoretically captures the cost of all ordering, billing, and network-related
3	systems required by any provider to supply local telephone service. The
4	BACE Model calculates its total cost for OSS by multiplying the input value of
5	*** \$ *** by the BSTAsPctOfScopeOfOperations factor of *** ***
6	(which according to the BACE Model Methodology Manual "accounts for the
7	relative size of the CLECs national scope of operations as compared to the
8	BellSouth operating territory within the state"), resulting in a final OSS input
9	value of *** \$ 1.00 ***.
10	These OSS systems are assumed to have a *** -year *** life in the BACE
11	Model. Therefore, the *** \$ *** investment is made in both Year 1 and
12	*** Year ***, for a total OSS investment of *** \$ *** over the 10-
13	year analysis period. In comparison, Sprint/United Management Company
14	had over *** \$ *** in capitalized software on its books as of year-end
15	2003, of which over half (or *** \$ ***) was attributable solely to
16	Sprint's ILEC operations. Included in this total was *** \$ *** in
17	capitalized software additions that Sprint ILEC booked in 2003 alone, not to
18	mention the over *** \$ *** in expensed software enhancements
19	recorded in 2003. The *** \$ *** in capital additions made in 2003 by
20	Sprint (a 100-year old company with existing OSS systems) by themselves
21	exceed the 10-year total additions generated by the BACE Model for a
22	hypothetical CLEC starting with no embedded OSS.

1		To illustrate the point in another way, the amount of capitalized software on
2		Sprint's books is approximately 41 times greater than the amount predicted
3		by the BACE Model for a new CLEC. By any measure, the ***
4		for OSS costs as shown in the BACE Model is severely understated,
5		particularly considering that there is limited scalability in provisioning OSS
6		systems (i.e., the same basic OSS must be in place for the first customer as
7		for the millionth customer).
8		
9		
10		D. Network and General Support Assets
11		
12	Q.	Have you reviewed the BACE Model estimates of Network/General
13		Support Asset capital costs?
14	A.	Yes. Within the BACE Model, the cost element labeled
15		"CapitalRelatedtoG&A" is apparently intended to capture the cost of Network
16		and General Support assets (e.g., Vehicles, Work Equipment, Buildings, and
17		Office Equipment) utilized by the CLEC. The BACE Model calculates its total
18		investment for these Support Assets by multiplying the input value of ***
19		(or) *** by the amount of revenue in each year to determine
20		the resulting total investment (not capital additions) in each year. In other
21		words, the Support Asset balance grows (or declines) in lock-step with
22	3	revenue growth.
23		
24		However, similar to the testimony related to the G&A Expense calculation in
25		the RACE Model, it is unrealistic to calculate Support Asset investment based

Filed: February 20, 2004 on Revenue trends. Setting that point aside for the moment, the amounts 1 2 calculated by the BACE Model do not bear any reasonable relationship to 3 reality. 4 The BACE Model shows an investment in Support Assets of *** \$ 5 in Year 1, *** \$ *** in Year 2, and *** \$ *** in Year 3, with 6 *** in Year 10, with an access lines served count of a growth to *** \$ 7 *** in Year 10. In comparison, Sprint-Florida had over 8 9 *** in Network and General Support Assets on its books as of year-end 2002, which is approximately 18 times greater than the Year 10 10 asset amount produced by the BACE Model, even though Sprint-Florida's 11 Access Line count of 2,200,000 is only *** times *** the CLEC's Year 10 12 access line count. Again, by any measure, the ultimate *** \$ 13 in Support Asset investment as shown in the BACE Model is dramatically 14 15 understated, as are the Year 1 through Year 9 amounts. 16 17 Summary 18 Q. Please summarize your Supplemental Surrebuttal Testimony. 19 A. Sprint's last-minute on-site review of the BellSouth BACE Model was 20 insufficient to allow an adequate review of all areas of such a complex model. 21 22 23 Sprint's additional analysis has identified that switch investment, DLC 24 investment, OSS costs, and network and general support assets are all

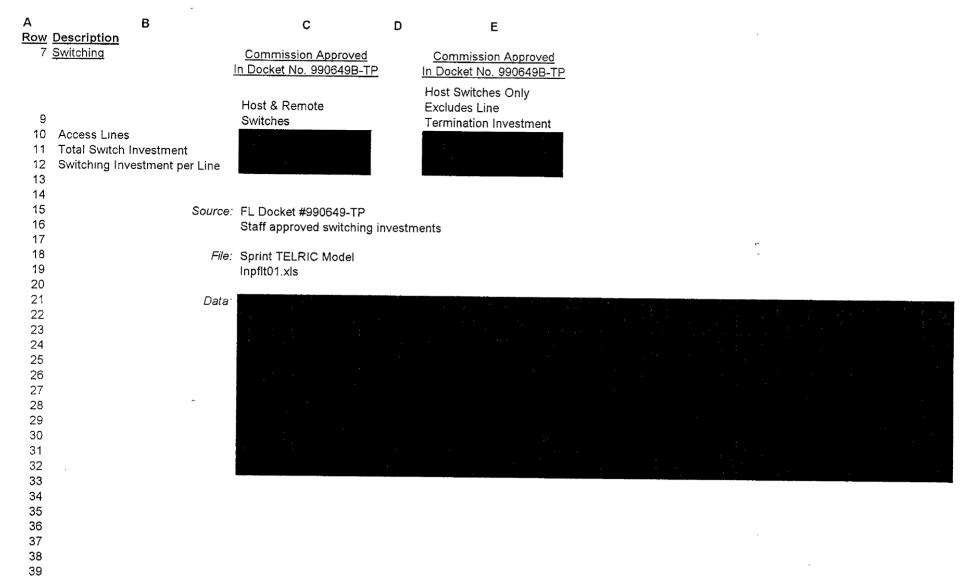
Comparison of Sprint Florida Commission Approved Capital to Bell South BACE Model Results for End Office Switches and Loop DLC Equipment

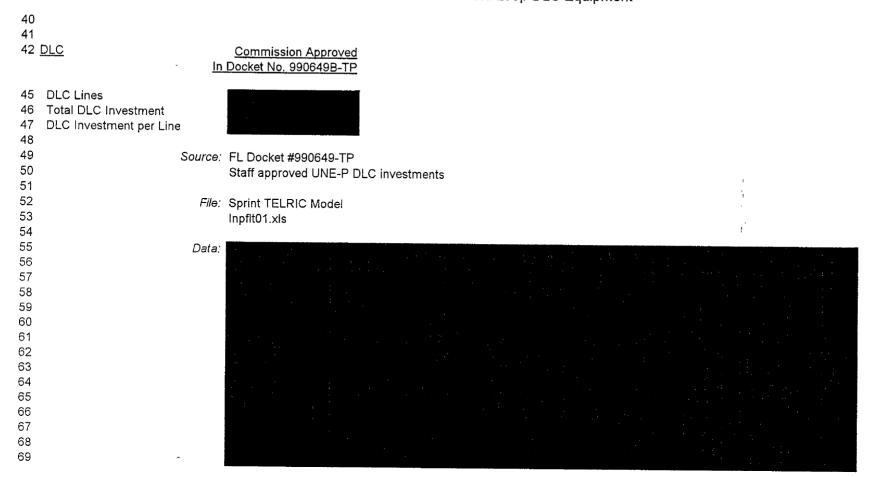
	С	D	E	F	G	н	1	J	к	L	М
Row Description 5 BACE Access Lines	Source/Calculation	<u>Year 1</u>	<u> Үеаг 2</u>	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
6 BACE Access Lines 7	Note A.	384,084	587,598	696,092	757,158	790,330	809,220	822,110	828,604	833,300	836,320
	In Docket No. 990649B-TF	in Docket	No. 990649B-TP								
9 Switching 10 Bell South BACE Model 11 Capex-Switching 12 Capex per line-cumulative 13		\$ 43,275,767 \$ 112.67	\$	3,118,660 \$ 66 65 \$	1,072,481 \$ 62 69 \$	1,376,258 \$ 61.80 \$	5,120,068 \$ 66 69 \$	2,691,491 \$ 68 91 \$	2,818,893 \$ 71.78 \$	5,274,982 \$ 77.70 \$	3,149,909 81 19
14 Sprint Investment per line (1) 15 BACE % Capital Understated 16	WS Investment Support E14=(E13-E11)/E11	\$ 157 50 \$ 40%	157.50 \$ 111%	157 50 \$ 136%	157 50 \$ 151%	157.50 \$ 155%	157.50 \$ 136%	157 50 \$ 129%	157 50 \$ 119%	157 50 \$ 103%	157 50 94%
17 (1) Hosts Only Investment and Exclude 18	les Line Termination Investment										
20 Digital Loop Carrier (DLC)								ı			
21 Bell South BACE Model22 Capex-DLC23 Capex-DLC per line-cumulative								\$	6,923,786 \$ 8 36 \$	6,796,387 \$ 16 46 \$	6,774,853 24 51
24 25 Sprint Investment per line 26 BACE % Capital Understated 27								\$	325 90 \$ 3800%	325.90 \$ 1879%	325 90 1230%
28 29 Note A Access lines are from Bel	IS							duc	t Area = Internet		
30 31											
32 Note B Capex-Switching is from E								ente	er = Local Switch	ning	
33 34	and Cost Element <> Build	ingLoading Total Ca	pex-Switching exclude	es Cost Elements Bu	ildingLoading and	d FeatureFunction	nality				

34
35 Note C Capex-DLC is from BellSouth filed BACE Model results. The Report Data Source is Revenue and Cost, fields to view include. Cost Center. Criteria: 1. Cost Center. = DLCEquipment.

In Docket No 990649B-TP

Approved UNE Switch Investments, DLC Investments and Lines





Specifically, the CLEC modeled by the BACE Model has one switch per 1 2 LATA. The CLEC has thirteen switches in Florida, while BellSouth has *** *** switches. The overwhelming volume of BellSouth's *** 3 4 switches compared to the CLEC's thirteen clearly suggests BellSouth's use of their internal vendor cost to estimate the CLEC's cost is not 5 reasonable. 6 7 **B.** DLC Investment 8 9 10 Q. Has Sprint analyzed the DLC (Digital Loop Carrier) investments 11 generated by the "corrected" January 22, 2004 version of the BACE 12 Model? A. Yes. This analysis is also summarized on Exhibit KWD-13. Row 21. 13 14 represents annual investment in DLC equipment from the BellSouth 15 "corrected" January 22, 2004 filing. Row 22 shows that the average investment per line over the ten years ranges from *** \$ to \$ 16 17 Row 24 shows that Sprint's Commission-approved average DLC investment 18 per line was *** \$ ____*** in Docket No. 990649-TP. Thus the BACE Model understates DLC investment by a range of *** which to will the tenderstates be understates be understated by a range of *** 19 year period (Row 25). 20 21 22 Q. Is the BACE Model DLC investment per line reasonable? 23 A. No. The BACE Model DLC investment per line for a start-up CLEC is 24 severely understated even when compared to a mid-sized ILEC such as